

Read by  
Seaman

ISSUED EVERY WEDNESDAY

# DRUG & CHEMICAL MARKETS

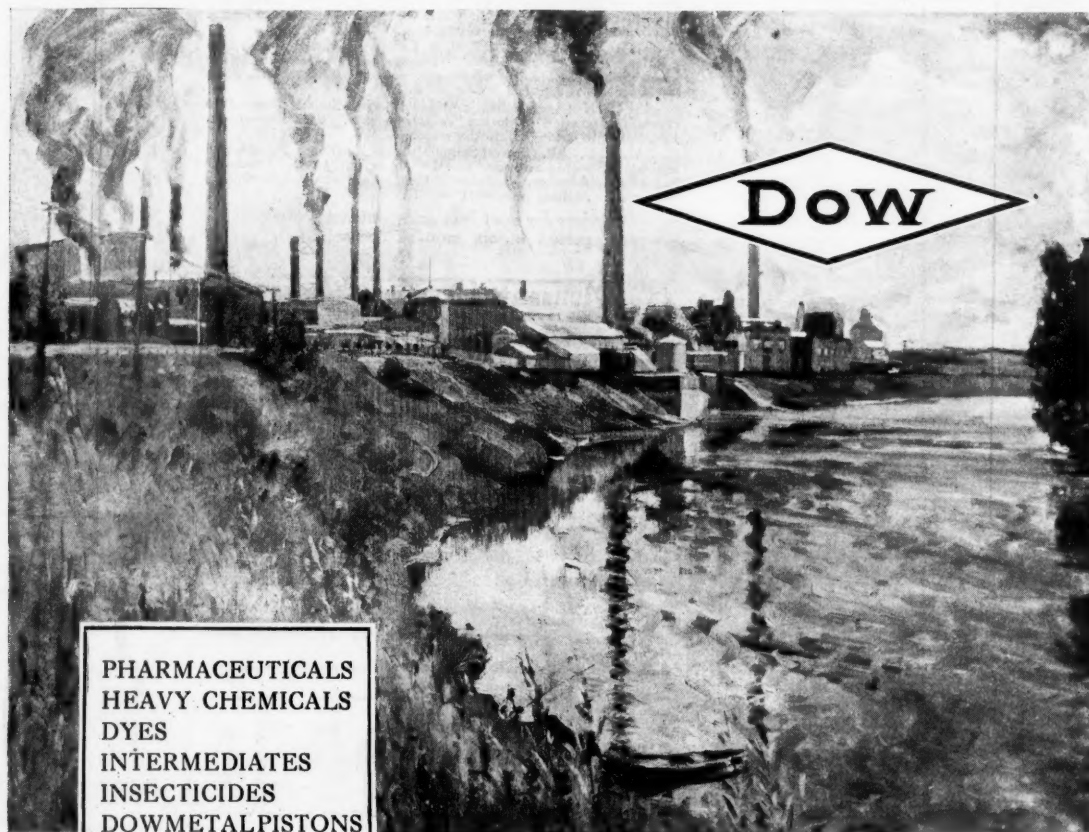
Established 1914

A Weekly Business Paper for Those Who Make, Sell, or Buy  
Chemicals, Dyestuffs, Drugs, Essential and Fatty Oils

VOLUME XII,

NEW YORK, JANUARY 10, 1923

No. 2



PHARMACEUTICALS  
HEAVY CHEMICALS  
DYES  
INTERMEDIATES  
INSECTICIDES  
DOWMETALPISTONS

Catalog upon Request

Riverfront view of Main Works



THE DOW CHEMICAL COMPANY



Midland Mich U.S.A.

90 West Street, New York City.

**In This Issue** { *The Pot and The Kettle—Page 73*  
*It Happened In 1922—Page 75*

# MONSANTO SALICYLATES

**O**UR NEW Salicylic plant is the perfection of design and construction, attained only by years of chemical engineering research and successful manufacture. This perfection of plant is reflected in the quality of its products.

MONSANTO'S SALICYLATES stand today unequalled in purity, whiteness and uniformity—both physically and as shown by chemical analysis.

**SALICYLIC ACID** U. S. P. Specifications: Fine white needles. Purity—99.5% minimum (on dry basis). Ash—.1% maximum. Melting point—158°–159° C. Color with C. P. Sulfuric Acid—not more than a very light yellow tint.

**SODIUM SALICYLATE** U. S. P. Specifications: Pure white powder. Purity—99.5%–100.0% (on dry basis). Heavy metals—none. Sulfites or Thiosulfates—none. Aqueous solution 1:10, when freshly made, is colorless.

**ASPIRIN** (Acetylsalicylic Acid) Specifications: Fine white crystalline powder. Odorless. Sulfates—none. Chlorides—none. Free Salicylic Acid—practically none.

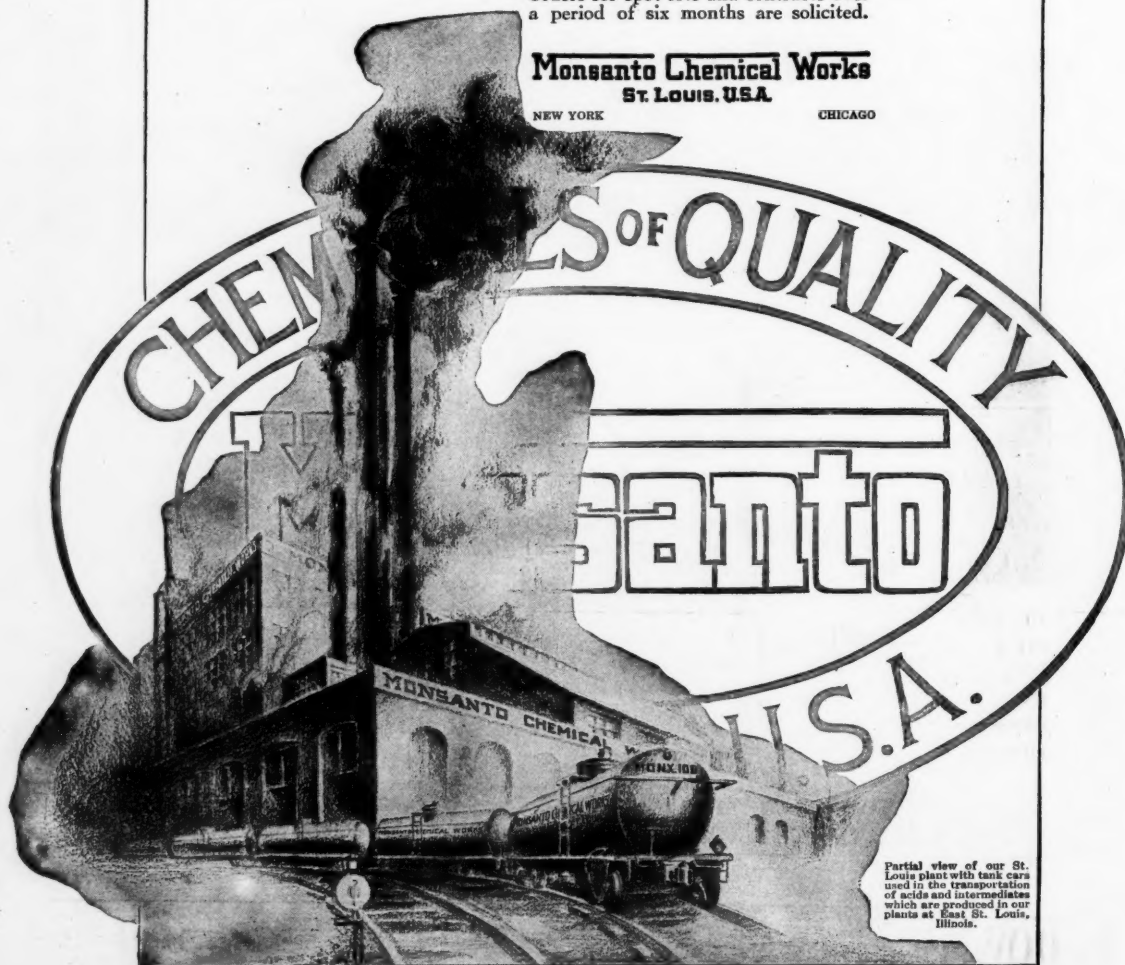
**SALOL** U. S. P. (Phenyl Salicylate) Specifications: Small white crystals have aromatic odor and a characteristic taste. Phenol or Salicylic Acid—none. Sulfates or Chlorides—none. Ash—0.05% maximum. Melting point—41°–43° C.

Orders for spot lots and contracts over a period of six months are solicited.

**Monsanto Chemical Works**  
St. Louis, U.S.A.

NEW YORK

CHICAGO



Partial view of our St. Louis plant with tank cars used in the transportation of acids and intermediates which are produced in our plants at East St. Louis, Illinois.

# MATHIESON Chemicals

**W**E manufacture and sell, through our own organization, the following products, all of the high Mathieson standard.

**LIQUID CHLORINE**—A better, safer, 100% pure bleaching agent that gives the cloth a softer feel, a cleaner coloring and a greater tensile strength—no danger of goods yellowing or tendering.

**BLEACHING POWDER**—The highest test and most stable bleach manufactured.

**SODA ASH**—58% Pure Alkali—both light and dense. Shipments in bulk, bags and barrels.

**CAUSTIC SODA**—The electrolytic 78% grade analyzing 98.70% Hydrate of Soda, is the purest caustic made. Also solid, ground or flaked, 76% and 74% grades.

**BICARBONATE OF SODA**—Purest grade, powdered and granular.

**VIRGINIA SODA** (Sesquicarbonate of Soda)—A beautiful white crystalline product, uniform in character and action. A superior neutral textile soda for washing and scouring.

There is no division of responsibility when you allow us to fill your requirements.

*The* **MATHIESON ALKALI WORKS Inc.**  
25 WEST 43<sup>RD</sup> STREET NEW YORK CITY

PHILADELPHIA  
PROVIDENCE

CHICAGO  
CHARLOTTE



**Deal Direct with the Manufacturer**

# BENZIDINE BASE

# ALPHA NAPHTHOL

# BETA NAPHTHOL

Dyestuffs and Intermediates

manufactured by

CONSOLIDATED COLOR &  
CHEMICAL CO.

CENTRAL DYESTUFF &  
CHEMICAL CO.

WILLIAMSBURG CHEMICAL  
CO.

and other American manufacturers

distributed by

**H.A. METZ & CO. Inc.**  
One Twenty-Two Hudson Street, New York City.  
Boston Philadelphia Providence  
Chicago Charlotte San Francisco

ISSUED EVERY WEDNESDAY

## DRUG & CHEMICAL MARKETS

PUBLISHED EVERY WEDNESDAY BY

DRUG & CHEMICAL MARKETS, INC.

WILLIAMS HAYNES, President  
IRA P. MACNAIR, Secretary F. F. BURGIN, Treasurer  
Publication Office  
3 PARK PLACE, NEW YORK, U. S. A.  
Telephone 0440 Barclay Cable Chemmarket  
Home Life Bldg., Washington, D. C.  
80 Fenchurch st., London, E. C. 3.  
19 Rue Auber, Paris  
40 Gr-Burstah, Hamburg  
18 Yamashita-cho Kyobashi-Ku, Tokyo

Entered as second-class matter, Dec. 7, 1914, at the post office at New York, N. Y., under the Act of March 3, 1879.

### SUBSCRIPTION RATES

United States, Cuba and Mexico \$4.00 a year; Foreign \$5.00 a year, payable in advance. Current Copies, 10 cents. Back Copies, 25 cents. A Binder for this Journal @ \$1.00 Postpaid.

## Table of Contents

### EDITORIALS—

The Pot and the Kettle .....	73
Enforcing the Sherman Law .....	73
Know Your Customer and Your Goods .....	73
A Chemical Revolution? .....	74
Many Men: Many Minds .....	74

### FEATURE TRADE ARTICLE—

It Happened in 1922. Salient Features of the Past Year in the Drug and Chemical Industries Described Briefly in Chronological Order ....	75
--	----

### TRADE NEWS—

Statements on the Arsenic Situation Give Estimates of the Probable Production and Consumption in the U. S. During 1923 .....	79
Russia Requires License for All Importations ..	79
Chas. H. Goddard, President of the A. D. S., Says Company May Pay Dividends Soon ...	81
Japan Bought Nearly Two Million Pounds of Caustic Soda Here in October .....	83
Exports of Pharmaceuticals in October Exceeded \$1,000,000 in Value .....	85
Use of Dyes in Coloring Paper .....	87
Many Cottonseed Oil Mills Closed .....	89
Committee of Drug Trade Section Says New York Is the World Drug Center .....	91

### MARKET REPORTS—

Heavy Chemicals .....	82-83
Fine Chemicals .....	84-85
Intermediates and Dyes .....	86-87
The Oil Market .....	88-89
Crude Drugs .....	90-91
Essential Oils .....	92-93
The Consuming Industries .....	94
Foreign Markets .....	95

PRICES CURRENT .....

IMPORTS .....

WANTS and OFFERS .....

BUYER'S GUIDE .....

INDEX TO ADVERTISERS .....





## Acids

SULPHURIC  
HYDROCHLORIC  
NITRIC  
MIXED ACID

Commercial and Chemically Pure  
Grades—In All Strengths

## Salts

SULPHATE ALUMINA  
(For Paper Makers and Water Works)  
AMMONIA ALUM U. S. P.  
TRISODIUM PHOSPHATE  
HYPOSULPHITE SODA  
FLUORIDE SODA  
BISULPHITE SODA  
Anhyd. Powder and Liquid  
TIN CRYSTALS  
EPSOM SALTS  
U. S. P. and Technical  
GLAUBER'S SALT

# General Chemical Company

40 Rector Street, New York

Baltimore  
Buffalo  
Chicago

Cleveland  
Denver  
Easton

Montreal  
Philadelphia  
Pittsburgh

San Francisco  
Providence

Cable Address: Lyeurgus, New York

# CHEMICALS

## METHANOL—All Grades

*Manufactured by*  
**The Cleveland-Cliffs Iron Company**  
 CLEVELAND, OHIO

### *Factories*

Marquette, Mich.

Gladstone, Mich.

Antrim, Mich.

### *Distributing Points*

Newark  
 Cleveland  
 New York

Cincinnati  
 Brooklyn  
 Boston

Chicago  
 St. Louis  
 Detroit

Burlington  
 Minneapolis  
 London

### *The Origin of America's Chemical Industry*

**I**N 1793, John Harrison established, at Philadelphia, the first sulphuric acid unit in America. This unit marked the beginning of commercial chemical manufacture in this country.

The development of this small unit is represented today in du Pont acids and chemicals—a development that has kept pace with the nation's progress.

*Manufacturers of quality acids and chemicals for industrial uses.*



Acetic Acid  
 Nitric Acid  
 Oleum  
 Lactic Acid  
 Barium Nitrate

Dipping Acid  
 Aqua Fortis  
 Electrolyte  
 Alums  
 Salt Cake

Muriatic Acid  
 Sulphuric Acid  
 Mixed Acid  
 Barium Chloride  
 Strontium Nitrate

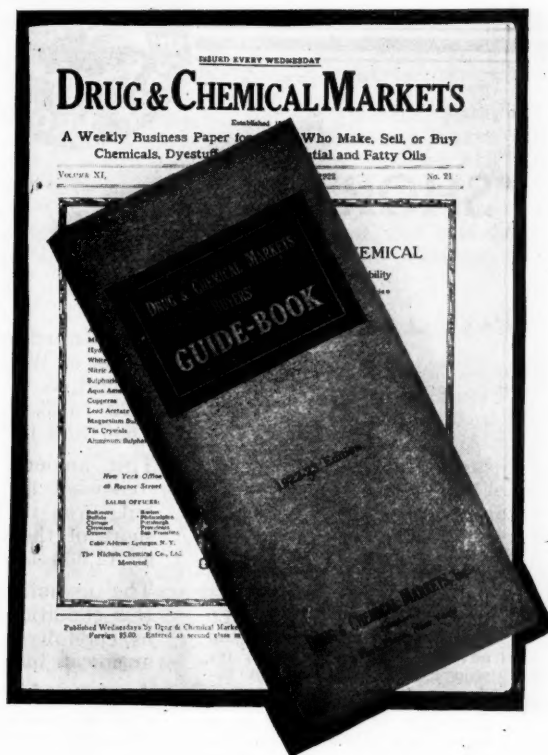
**E. I. DU PONT DE NEMOURS & COMPANY, INC.**

3500 Gray's Ferry Road, Philadelphia, Pa.

256 Vanderpool Street, Newark, N. J.

What's  
the  
Price?

Who  
Sells  
It?



*Profitable buying depends on your correct answers*

The price of over 2,300 chemicals, dyes, drugs, oils is reported promptly, expertly, without bias and with full specifications on grade, packing and quantity in each issue of DRUG & CHEMICAL MARKETS.

The 4,800 makers and first-hand dealers in all these products (not a mere list of advertisers) are to be found with address and telephone numbers, arranged by cities and under the items they sell in the GUIDE-BOOK.

The two—the weekly business paper and the annual buyers' guide—a *complete* service on your desk for a year costs four dollars.



## SHORTAGE!

What the Drastic Shortage in Arsenic means to the Trade

### Since 1839

For over three quarters of a century, the name GRASSELLI has been identified with the advance of chemical skill, research and knowledge in industry.

Perfection doesn't come in a day—it's a matter of long, slow development down the years, the product of experience. That's the basic reason for the recognized prestige and leadership of GRASSELLI GRADE insecticides and fungicides. Our 34 years of Experience and Reputation is at once your Protection and your Guarantee.

The United States Geological Survey reports stocks of White Arsenic on hand Oct. 1, 1922, 1,230 tons, and estimated production Oct. 1, 1922, to May 1, 1923, 3,400 tons, or a total of 4,630 tons in sight for the 1923 season.

This amount will undoubtedly be increased somewhat by imports and from other sources but, even if it could be doubled, will fall far short of the demand conservatively estimated at 12,000 tons.

The manufacturer of insecticides must meet this condition by allotting his Arsenic supplies as carefully as possible between the different arsenical insecticides.

Arsenate of Lead is used first, and the consumer and distributor can help in meeting this difficult situation and at the same time assure themselves of a supply, by sending in their specifications at once.

CALCIUM ARSENATE		ARSENATE OF LEAD	
200 lb. barrels.....	21c. lb.	200 lb. barrels.....	26c. lb.
100 lb. barrels.....	21c. lb.	4-5-6 lb. bags.....	26c. lb.
4 lb. bags.....	21c. lb.	100 lb. barrels.....	26½c. lb.
1 lb. cans.....	28c. lb.	1 lb. cans.....	34c. lb.
¼ lb. cans.....	32c. lb.	¼ lb. cans.....	38c. lb.

Discount of 1c. lb. is allowed when shipped in lots of 15,000 lbs. or over, and 2c. lb. when shipped in car loads, minimum 30,000 lbs. net weight.

These prices are f. o. b. Grasselli, Ind., freight equalized with the following manufacturing points:

Bound Brook, N. J., New York, N. Y., Middleport, N. Y., Baltimore, Md.,  
Reading, Pa., Boston, Mass., Philadelphia, Pa., Toledo, Ohio, Midland, Mich.,  
Chicago, Ill., Milwaukee, Wis., Louisville, Ky., and Grand Junction, Colo.

Quotations f. o. b. our Warehouses will be on the basis of above prices plus the carload rate of freight from nearest manufacturing point.

These prices apply in territory East of the Rocky Mountains and are subject to change without notice.

All orders accepted subject to our ability to fill.

Send your inquiries to your nearest Dealer or Jobber.

### The Grasselli Chemical Co.

Boston  
Detroit  
St. Paul  
New Orleans

Cleveland  
Philadelphia  
Chicago  
St. Louis  
New York

New Haven  
Milwaukee  
Cincinnati  
Birmingham

# GRASSELLI · GRADE

## SPRAY PRODUCTS



# DRUG & CHEMICAL MARKETS

3 PARK PLACE, NEW YORK

VOLUME XII, NUMBER 2

[JANUARY 10, 1923]

## THE POT AND THE KETTLE

American manufacturers who inflate the price statements they render to the Customs Appraiser for the purposes of establishing American valuation are in one worse class than importers who connived with foreign sellers to present discounted consular invoices for the determination of tariff duties. Both knowingly commit a dishonest act designed to defraud the United States Government. But to trickery and thievery the American manufacturer who attempts to circumvent the tariff law adds the unpleasant fault of ingratitude.

American valuation is in keeping with the economic theory of a tariff for protection. It is a simpler and safer basis for such protection than foreign valuation when foreign money values are all askew of the gold standard. It is, moreover, a valuation that is more easily determined with accuracy and less liable to juggling. For these three reasons we have vigorously supported a tariff based on the selling price in this country. We find all these reasons valid today, after the short test of American valuation, and one of them particularly is very cogent.

The gentlemen in the Appraiser's office are not fools. They know their work is fundamentally to protect American interests and to raise revenues for the American Government. But they are not knaves, and they quickly recognize the dishonesty of inflated prices submitted to them for valuation purposes by American manufacturers. Because they are honest officials they will neither pad their custom receipts at the expense of the importer nor wittingly give the American producer an unlawful measure of tariff protection. When American manufacturers submit too high prices, they arouse antagonism and distrust among those officials whose work they ought, for every reason, to make as clean, quick, and simple as possible.

Some American chemical manufacturers have done this silly and dishonest thing. We know of cases where from thirty to eighty per cent has been added to the actual selling price of certain makers. The facts—statements, correspondence, and invoices—are not to be doubted, and obviously interested parties would hardly fail to lay such evidence before the proper officials. Such damaging acts are more dangerous to the American chemical industry than the combined competition of the whole world.

We believe the fostering of American industry is for the best common good and general prosperity of this country. We have supported adequate tariff protection for the American chemical industry and we believe in the soundness and practicability of American valuation. We have, however, just

as little sympathy for an American manufacturer who lies about his selling price to a customs official as we cherish for a German importer who invents a fictitious name for a dye to get it into the non-competitive classification. Fortunately most American firms are not so dishonest, and it is distinctly up to the honorable American producers to help stop sharp practice.

## ENFORCING THE SHERMAN LAW

A simple and expeditious way of disposing of violations of the Sherman Anti-Trust law has grown out of a consent decree signed by Federal Judge Knox restraining the Gypsum Industries Association and its officers, and members from doing anything against the interest of the public. The decree provides a code of principles to govern trade associations, stating certain specific acts which they are prohibited from doing, such as fixing prices, restricting output, blacklisting dealers.

The decree represents the views of the Department of Justice and is a guide for trade associations as to what the Sherman law forbids. It favors the organization of a non-profit-making corporation for the general welfare of the members, but even division of territory is prohibited. Other prohibited acts are fixing middlemen's discounts to consumers; agreement to enforce arbitrary excess freight rates; agreeing that certain manufacturers make a product of a definite composition and that all others desist from making it.

The consent decree will save the Government the necessity of gathering a mass of evidence, and the time lost in preparing for trial. A remedy can be found under the injunction accompanying the decree by a move to punish offenders for contempt of court. It is believed that the new method will put an end to gouging by maintaining exorbitant prices.

## KNOW YOUR CUSTOMER AND YOUR GOODS

Salesmen, even in so highly specialized a line as that represented by our chemical industry, have been generally content to allow their knowledge of human nature and its frailties and an order book to constitute their entire working equipment. The attitude of the old line chemical salesman toward the chemist and his knowledge of the science upon which the existence of both is predicated often reminded one of the proverbial attitude of the backwoodsman toward "book larnin'." Fortunately for the salesman as well as the industry that view is rapidly being dissipated.

A new attitude in the thought of salesmen was brought into being some months ago at the College

of the City of New York when it was announced that the College would offer a course of lectures to the salesmen on the subject of chemistry designed to meet their needs. The reception accorded this announcement by the members of the Salesmen's Association as the plan has been developed has been highly gratifying to all. It is a sure indication that this highly important branch of our economic life is to keep pace with progress in other lines of industry.

The gradual replacement of the time-honored argument of price alone in selling chemical products by the far more logical one of service is clearly seen in this beginning. It is only a beginning but its good results will be far reaching in their effect.

### A CHEMICAL REVOLUTION?

A revolution in the manufacture of sulfuric acid, alumina, and potash is said to be threatened by discovery of a process by which potash, alumina, and sulfuric acid may be extracted from alunite. A subsidiary of the Armour Fertilizer Co. is producing potash, and the Florence Mining and Milling Co. have continued their research work until they are able now to produce alumina and sulfuric acid as by-products in obtaining the potash. Imports of potash from Germany in 1920 were valued at \$34,000,000.

Sulfuric acid is now produced by the chamber process, which yields impure acid not over 60 per cent in strength, and by the contact process which gives a pure and concentrated product. Copper smelting, pyrites, and brimstone are the principal sources today, and it is difficult to imagine cheaper or more effective ways of producing the vast quantity needed, sulfuric acid being in greater demand than any other product of the chemical industry. The output in 1919 was valued at \$35,638,200.

The principal sources of alumina in the United States are the bauxite beds of Arkansas, Georgia, and Alabama, but valuable deposits in Guiana, South America, are owned by an American company and shipments are to be made to Baltimore when arrangements are completed for refining the ore. About 130,000,000 pounds of aluminum, valued at \$40,000,000, were produced in 1920. One-half of the world's output is made in the United States.

It is hardly probable that these great industries whose total production is valued roughly at more than \$100,000,000 annually will be seriously affected by the output of one company owning a limited number of claims in the Tushar Mountains of Utah, where it is said by the experts of the Geological Survey the volcano of Mount Edna threw out liquid alunite and formed the deposits now being worked for potash, sulfuric acid and alumina.

The newsiest part of the report, however, lies in the intimation that Henry Ford's purpose in offering to lease Muscle Shoals is to produce potash and sulfuric acid for fertilizers from alunite, and the alumina for making aluminum for automobiles from the same product. He might compete with the manufacturers of aluminum, and he might make potash for fertilizers cheaper than the Ger-

man potash could be imported, but with the present demand for these products, there seems to be "room for all."

Even the failure of the Premiers Conference had no effect upon financial or industrial conditions in the United States. The feeling is buoyant that 1923 will be a favorable year for business, and the stock market which is first to discount bad news remained undisturbed by rumors of war, because it is believed by the financial and industrial interests that the influence of the United States Government will be felt soon in diplomatic circles as well as in the financial markets. Nearly all the leading nations are in debt to us, and it is doubtful if they can finance a war without help from America.

Medicinal and pharmaceutical preparations exported in October were valued at \$1,166,312, according to the Bureau of Foreign and Domestic Commerce. This valuation does not include morphine or opium alkaloids, caffeine, strychnine, serums, vaccines, quinine sulfate, or crude drugs. Our medicines seem to be particularly popular in England, Canada, Cuba, and Mexico. May their people live long and prosper.

Increased buying of sulfuric acid, the demand for caustic soda in all parts of the world, the favorable copper situation which promises to become very strong when Europe is able to buy more freely, and the improvement in wood chemicals give promise of a remarkable year in heavy chemicals. Scarcity of stocks is apparent in many products besides arsenic which happens to hold the center of the stage at present.

### *Many Men: Many Minds*

The United States is the world's greatest producer of swine and sends millions of them to slaughter every year, yet the quality of the bristles of the "razor back" swine of the Orient differs so much from that of the refined American hog that our importation of bristles, chiefly for use in the manufacture of brushes, now ranges from 5 to 10 million dollars every year and has in the past decade totaled nearly 50 million dollars, a very large proportion coming to us from China.—National City Bank of New York.

Business in this county cannot progress indefinitely without its foreign markets, says Secretary Mellon, and undue expansion now, with rising costs and artificial values, would inevitably sow the seeds of reaction and make more difficult the re-establishment of normal relationships abroad.

There is hardly an industry or occupation in this country that has not been subsidized or is being subsidized in one form or another, says Col. Myron W. Robinson, president of the American Manufacturers' Export Association.

James J. Davis, Secretary of Labor, says: "Both workers and employers are awakening to that community of interest which lies between them and to their joint responsibility to the public which is served by industry."

# It Happened in 1922

## Salient Events of the Past Year in the Drug and Chemical Industries Described Briefly in Chronological Order

**V**OLUMES could be written on the happenings in the drug and chemical industries during 1922. DRUG & CHEMICAL MARKETS alone published over 3,300 pages of news and market reports during the year. To get a brief description of the salient events of 1922 into a few pages, required a hand check of about a half million items, eliminating well in excess of ninety-nine per cent. The following is a brief news survey of the year with the events arranged according to date of happening.

### January

- 2.—Dun and Bradstreet predict greater stability and business expansion during 1922.
- 3.—Senator Reed Smoot declares potash contract between American fertilizer interests and European producers violates Anti-Dumping Act and in defiance of Sherman Law.
- Textile Alliance drops import of dyes following decision by Dept. of State (Dec. 14, 1921.) that arrangement with German producers must terminate.
- 4.—Ruling by Prohibition Commissioner that application for 1922 permit filed prior to Dec. 31, 1921, that 1921 permit would remain in force until a new one is issued.
- 5.—Terms of new cinchona bark contract between growers and quinine manufacturers announced from Batavia, Java.
- 6.—Mexican vanilla bean crop estimated at 50,000 lbs.
- Iodine Syndicate advances price of resublimed iodine in London to 18s 9d.
- 9.—Spanish Government refuses to renew quicksilver selling arrangement for 1922 with Rothschilds of London.
- 11.—"Open prices, openly determined" first advocated editorially by DRUG & CHEMICAL MARKETS.
- 13.—Ban on poison gas warfare approved at Armament Conference, Washington, D. C.
- 16.—Prediction for higher arsenic prices owing to limited supply. Perkin Medal awarded to Dr. William H. Burton.
- 18.—Dow Chemical Co. declares extra dividend of 1¼ per cent in addition to regular quarterly dividend for same amount.
- German limits export of chemicals by new regulations.
- 25.—Chemical markets very unsettled and demand dull. Tartar products cut on foreign competition. Coal-tar crudes scarce.

### February

- 1.—Cyanide manufacturers ask duty of 33½ per cent.
- Fertilizer makers lost \$75,000,000 in 1921, says Charles H. MacDowell.
- Rumor of pending investigation of Chemical Foundation by Dept. of Justice, emphatically denied by Foundation.
- 3.—E. D. Winkworth elected president, Solvay Process Co., to succeed E. L. Pierce.
- Anti-Bribery Bill introduced into House of Representatives.
- 6.—Charles A. Anderson & Co., New York exporters, file bankruptcy schedules.
- Denatured alcohol formula, No. 27-B made official.
- 8.—Insect powder advances 25 per cent in less than a week.
- 10.—Parke, Davis & Co. announce earnings for 1921 of \$4,349,496.
- Manufacturers protest bill prohibiting import and export of narcotics. (Miller Bill.)
- 13.—Morana, Inc., continue fight to import vanillin under the emergency tariff.
- 15.—Regulations for beverage taxes under the Revenue Law of 1921 issued.
- 17.—Attorney General Daugherty defines what trade associations may do legally.
- American foreign trade declined \$40,000,000 in January compared to Dec., 1921.
- 20.—Texas Gulf Sulfur Co. declares extra dividend of 50c share in addition to regular dividend for same amount.
- American Druggists' Syndicate reports loss of \$883,568 for 1921.
- 22.—Many chemicals and intermediates reported selling far below cost of production. Demand shows slight improvement, but buying is still restricted to immediate needs.
- Reports from Vera Cruz state vanilla crop to be smallest in years.
- 24.—American importers of chemicals form association with 45 members. Dr. J. Jungmann elected president.
- 27.—Heyden Chemical Co. reports deficit of \$288,790 for 1921.

### March

- 3.—Garvan claims German propaganda to foster import of German dyes.
- Lamie Chemical Co. declared bankrupt with assets of \$233,593 and liabilities of \$238,300.
- 6.—Charles Huisling compares Germany to-day to U. S. during the boom of 1919 with speculation widespread.
- E. I. du Pont de Nemours & Co. report net sales for 1921 of \$55,285,181 as compared to \$83,988,292 in 1920.
- 8.—Red prussiate of potash practically unobtainable in New York. Offered for shipment from England at 50c and from Hamburg at 40c.
- American Drug Manufacturers Assn. opposes further enforced use of denatured alcohol for medicinal products.
- 10.—American textile mills express desire to secure reparation dyes.
- For the first time in the history of the United Drug Co., sales for 1921 showed a falling off, losing \$8,000,000 from \$68,428,179 in 1920.

- 13.—Herman Metz issues open letter criticizing Garvan's testimony at dye hearings in Washington.
- Attack of Senator King on American Dyes Institute refuted by Poucher, Jeffcott and Danner.
- 15.—Mathieson Alkali Works reports net loss for 1921 amounting to \$142,635 compared with profit in 1920 of \$524,874.
- Same quantity to all at one price says Federal Trade Commission ruling on Mennen case.
- 18.—National Aniline & Chemical Co. made less than ten per cent in four years, John W. Newlean states.
- American potash producers petition Congress for better protection from foreign competition.
- 24.—Stock of Allied Chemical & Dye Corp., advances to 65 on the New York stock exchange, a high record thus far for 1922.
- 29.—Higher duties fixed in the Senate Finance Committee on chemicals. Long fight in conference predicted.
- German dyes needed here, says Herman Metz, testifying before Senate Committee.
- 31.—Report of Merck & Co. for 1921 shows net loss of \$732,999.
- Balance sheet shows assets of \$4,005,064 and liabilities of \$275,783.

### April

- 3.—Senate Finance Committee proposes to continue dye license for one year after passage of tariff.
- 5.—Control of dye imports necessary, say American makers, to prevent flooding this market by Europe.
- U. S. Industrial Alcohol Co. reports earnings for 1921 at \$1,486,041 and a deficit of \$623,368, as compared with \$5,102,831 and surplus of \$999,498 in 1920.
- Dr. Charles H. Herty elected president of the Synthetic Organic Chemical Manufacturers' Assn.
- H. Hoshi gives 600,000 yen to build modern college of pharmacy in Japan.
- 10.—Allied Chemical & Dye Corp. earned \$2.23 per share in 1921, based on \$13,093,889 income in 1921, against \$29,768,751 in 1920.
- John F. Queeny, chairman of the Board of the Monsanto Chemical Works, celebrates his fiftieth year in the chemical business.
- 12.—Senate Finance Committee reports out the tariff bill prepared by the House, with numerous changes, rates being generally higher. The bill comes up for discussion in the Senate.
- 14.—Open price associations warned that Government contemplates bringing suit in the near future against them for price fixing, suppressing competition, and other acts.
- War Department sells excess sodium nitrate stocks at \$22.50 up to \$30.00 per ton to fertilizer companies.
- 19.—Cocaine classified as "synthetic organic drug" under Emergency Tariff by Treasury Dept. ruling.
- Manufacturers reduce vanillin to 50c per ounce.
- French reported to have bought a number of German dye patents.
- British India raises tariff rates on chemicals and drugs.
- 21.—Tariff debate opened in Senate.
- Receivers appointed for the Butterworth-Judson Corp.
- 24.—Commonwealth Chemical Corp. absorbed by the Mathieson Alkali Works.
- United Medicine Manufacturers hold first meeting in Pittsburgh.
- 26.—Monsanto Chemical Works petitions Congress for a 25 per cent duty on camphor to foster synthetic industry here.
- Board of Directors of Allied Chemical & Dye Corp., re-elected.
- Manufacturing Perfumers' Assn. meets in New York.
- Merger of several large German potash companies for expansion of world trade reported.
- Senator King offers resolution for investigation of Alien Property Custodian's office.
- 28.—Senator King attacks chemical schedule in Congress as fostering profiteering.

### May

- 1.—Eastman Kodak Co. reports net profit of \$14,105,861 for 1921.
- 3.—Milton Kutz comes to New York as salesmanager for Roessler & Hasslacher Chem. Co.
- Arsenic prices begin to move upward.
- Textile Alliance to resume dye imports under German agreement.
- Gilbert Colgate elected president Manufacturing Perfumers' Assn.
- Frank A. Blair of Foley & Co., Chicago, re-elected president Proprietary Assn. at annual meeting in New York.
- 5.—Reparation Commission announces it will terminate delivery of dyes to Textile Alliance on June 30.
- Duty of 3c per pound proposed on arsenic in Senate.



- 10.—U. S. Geological Survey approximates American annual production of sulfuric acid at 5,500,000 short tons, worth \$60,000,000. Denatured alcohol formula No. 25 made official. Contracts of BB camphor for second quarter of 1922 covered 508,000 pounds for shipment from Japan. Form 1477 for specially denatured alcohol recalled and substitute issued. Fall color card of the Textile Color Card Assn. issued. Meeting American Spice Trade Assn. held in New York. John E. Teeple elected president of New York Chemists' Club. Chemical Equipment Assn. organized in New York and first meeting held.
- 15.—Formation meeting of Photographic and Microscopical Society in New York.
- 17.—MacAndrews & Forbes Co. report net earnings for 1921 of \$783,988 equal to \$9.20 per share on common stock. Hooker Electrochemical Co. buys S. Wander Sons & Co. plant, Albany, N. Y., from referee in bankruptcy for \$130,000. Manufacturers advance resublimed iodine to \$4.20 per pound. Other iodides up. Kina bureau, Batavia, Java, proposes to take 300,000 kilos of quinine sulfate per year between 1924 and 1928 from bark growers. Quinine Assn. in Amsterdam agrees. Current contract expires 1923. Norwegians cod liver oil production for 1922 season exceeds 1921 by 4,000 barrels.
- 19.—Producers cut aniline oil below cost of production to move excess stocks. Japan proposes adoption of dye embargo. J. F. Pickett elected president of United Medicine Manufacturers of America, Pittsburgh. Amendment to Harrison Law prohibiting importation of narcotics passed. E. V. Kohnstamm, president of H. Kohnstamm & Co., New York, dies at Atlantic City.
- 22.—Purchasing Agents Assn. adopts resolution in favor of open prices and standardized buying conditions. Virginia-Carolina Chemical Co. issues \$35,000,000 in bonds to refund indebtedness. Mathieson Alkali Wks. reports net profit of \$151,667 for first three months of 1922.
- 24.—Denatured alcohol formula No. 46 made official by Internal Revenue Dept. Frank Woodworth, New York, elected managing-director of American Manufacturers of Toilet Preparations.
- 26.—Ernest Solvay, inventor of the Solvay soda process, dies in Brussels, Belgium, at age of 84.
- 29.—Dye prices in Japan collapse on importation of cheap colors from Europe.
- 31.—Senate fixes rate of duty on finished dyes at 7c per pound and sixty per cent ad valorem.

## June

- 5.—House passes "Commercial Bribery" bill. American manufacturers cut quinine to 50c per ounce.
- 6.—American Drug Manufacturers' Assn. holds eleventh annual meeting in New York.
- 7.—Mallinckrodt Chem. Wks. files application for increase of capital from \$250,000 to \$5,000,000, fully paid, assets listed at \$5,264,906. Estimated sales of Government excess phenol since termination of war, placed at twenty million pounds. Deutsche Kali and the Wintershall, German potash producers, merge to form biggest combine in German potash field.
- 8.—W. A. Sailer of Sharpe & Dohme, re-elected president of American Drug Manufacturers' Assn. A. Homer Smith elected secretary to succeed W. J. Woodruff, resigned.
- 14.—Annual meeting of National Fertilizer Assn. at White Sulphur Springs, W. Va. Merger of General Bakelite Corp., the Redmanol Chemical Prods. Co., and the Condensite Co. of America to form the Bakelite Corp.
- 16.—Dr. Chas. L. Reese, E. I. du Pont de Nemours & Co., elected president Manufacturing Chemists' Assn. American Pharmaceutical Assn. meets at Bedford Springs, Pa. C. H. Searle, re-elected president.
- 21.—Pyrethrum Assn. of Japan meets and fixes minimum export price for flowers to U. S. at 31c c.i.f. Manufacturing Perfumers' Assn. officially changes name to American Manufacturers of Toilet Articles. Insecticide & Disinfectant Mfrs. Assn. meets in Chicago and adopts resolution against tariff "embargo."
- 23.—Owing to American competition, sulfur market of Sicily collapses and mines close.
- 24.—Chemical Foundation enters suit to recover royalties from nine big chemical manufacturers. Gustavus Ober, Baltimore elected president of the National Fertilizer Assn.
- 28.—C. R. De Long, chief chemist of U. S. Tariff Commission, appointed chief of new Chemical Division of Dept. of Commerce, effective Aug. 1. Bernard R. Armour, president of American Aniline Prods. buys \$500,000 share controlling interest of Heyden Chemical Co., bought by Allan A. Ryan from the Alien Property Custodian in 1918. Government seizes two million cans of chloroform distributed by Surplus Property Division, as impure and unfit for use. Alcohol bond ruling, T.D. 3335, modified after trade protests.

## July

- 1.—President Harding requests return of patents by Chemical Foundation, Inc., to the Alien Property Custodian.
- 3.—Embargo against sale of chloroform in small tins placed by N. Y. City Dept. of Health. British Dyestuffs Corp. and German Cartel reach agreement for sale of German dyes in England. William F. Oburg, vice-president, Merrimac Chemical Co., dies at Winthrop, Mass.

- 5.—Senator King attacks Textile Alliance in Senate, saying it exceeded authority in Reparation Dye Traffic. Raritan Aniline Works, New Brunswick, N. J., goes into receiver's hands. Alcohol bond regulations enforcement postponed from July to Sept. 1, with modification planned meanwhile.
- 7.—Daugherty denies German influence in attack on Chemical Foundation.
- 10.—Alien Property Custodian Miller makes formal demand for return of patents on Chemical Foundation. Miner-Edgar Co. offered \$1,500,000 first mortgage 20 year 7 per cent convertible sinking fund gold bonds.
- 12.—Denatured alcohol formula No. 47 authorized. Criminal action brought against Chemical Foundation by U. S. Dept. of Justice. Francis P. Garvan being subpoenaed to Washington. Forty thousand shares of cumulative Class A stock of the Commercial Solvents Corp. sold at \$45 per share. Treasury decision 3366 issued, amending leakage provision of alcohol regulations. Richard Kny, formerly of the Heyden Chemical Co., dies at Lake George, N. Y.
- 14.—Dr. Chas. Herty tells Pres. Harding return of German patents will ruin American chemical industry.
- 17.—The Selden and Walker Chemical Co.'s, Pittsburgh combine under name of Selden Co.
- 19.—Francis P. Garvan refuses to return German patents to Alien Property Custodian. Senate votes against the proposed dye license by 38 to 32. Senate Committee on Agriculture rejects Henry Ford's offer for Muscle Shoals.
- 21.—Du Pont answers suits of German concerns for royalties on patent use. Monsanto Chemical Works replies to Senator Moses' letter on the Chemical Foundation. Offer various plans for Muscle Shoals as substitute for Ford offer. Virginia-Carolina Chemical Co. \$12,500,000, 15 year, 7½ per cent convertible sinking fund gold bonds offered.
- 22.—Dr. Jokichi Takamine dies in New York, age 68.
- 26.—Investigate storage of magnesium powder after big fire in New York warehouse. Denatured alcohol formula No. 38-C for use in dentifrices made official.
- 28.—Charles A. Patterson, vice-president of the Du Pont Powder Co., dies.
- 31.—Virginia-Carolina Chemical Co. reports net earnings for year ending May 31, 1922 of \$1,684,780 against a loss of \$13,152,876 in 1921. Air Reduction Co net profits for second quarter of 1922 were \$231,351, against \$184,314 for the previous period.

## August

- 2.—Chloroform distributors announce use glass bottles only for distributing small sizes. Record breaking prices for Spanish saffron predicted as \$30 is neared.
- 4.—G. A. O'Reilly, vice-president of Irving National Bank, says the chemical industry needs more publicity in Washington. Thomas M. Starkie, vice-president of Harshaw, Fuller & Goodwin Co., dies, age 55 years.
- 9.—Accusation made that Textile Alliance has engaged in general dye import business while acting for Government. Report of E. I. du Pont de Nemours & Co. for six months ending June 30, 1922, shows net earnings of \$5,346,857. Senate Finance Committee rejects the potash bonus plan and keeps arsenic on free list.
- 11.—Col. Herman A. Metz nominated for Congress by Democrats from Seventeenth District, New York City.
- 13.—Senate Finance Committee submits over a hundred last minute amendments to the Senate version of tariff bill. Coal famine certain, is report, even if mines are re-opened at once.
- 16.—A issue of \$3,000,000 first mortgage 7 per cent ten-year sinking fund gold bonds, offered by the Newport Co. sold in eight hours. Special denatured alcohol formula No. 38-B changed.
- 18.—Passage of the McCumber Tariff Bill by the Senate without "dye embargo," but with Bursam Amendment calling for high rates in place of license.
- 19.—T. R. L. Loud, vice-president New York Quinine & Chemical Works and president of Salesmen's Assn. dies, age 64 years.
- 21.—One million dollars worth of 3 per cent cumulative preferred stock of the Seydel Chemical Co. offered.
- 23.—Nichols Copper Co. withdraws from the Copper Export Assn. syndicate formed in Java to build second quinine factory there.
- 25.—Ralph C. Jennings appointed general sales manager of the New York Quinine & Chemical Wks. C. L. Speiden of Innis, Speiden & Co., returning from Germany, says Germany is in no position to meet her war debts. C. C. Concannon appointed assistant chief of the Chemical Division, Dept. of Commerce, Washington. T. Coleman du Pont nominated by Republicans for U. S. Senator from Delaware.
- 30.—H. W. Cole elected vice-president of Baird & McGuire, Holbrook, Mass. William B. Bell elected president American Cyanamid Co. to succeed Frank S. Washburn, retiring on account of ill health. Procter & Gamble earned \$7,340,327 for year ending June 30, 1922, from gross sales of \$105,655,386. H. J. Baker & Co. appointed selling agents for German Potash Syndicate in U. S. exclusive of the Pacific Coast. Sherwin-Williams Co. delivers 3,000,000 pounds of calcium arsenate to the Georgia Dept. of Agriculture since January. Dr. Frederick W. Attack becomes director of Southern Dye-stuff Co.



September

- 1.—Denatured alcohol formula No. 23-F made official for liniments and lotions.
- 4.—Depleted stocks of wood chemicals force prices upward.
- 6.—American Chemical Society meets in Pittsburgh.  
Henry Howard named head of Chemical Advisory Board by Hoover.
- 7.—Wm. J. Robinson, many years salesmanager of Heller & Merz, retires and is succeeded by John H. Loomis.
- 8.—Allied Chemical & Dye Corp. offers \$25,000 annual chemical prize through Wm. H. Nichols.
- 9.—Government filed papers at Wilmington, Del., in suit against Chemical Foundation.
- 11.—Eighth National Exposition of Chemical Industries opened at Grand Central Palace, New York.
- 12.—Herbert Hoover speaks at annual dinner of Salesmen's Assn. in New York. John W. Boyer elected president for 1923.
- 13.—John Chew, N. Y. Chapter president.
- 14.—Dye license restored to tariff bill by conference committee, which also fixes potash duty at \$30 per ton.
- 15.—Alexander Smith of Columbia University dies in Edinburgh, Scotland, age 57 years.
- 16.—Newport Chemical Wks., Passaic, N. J., issues \$5,000,000 in gold bonds.
- 17.—Meyer Bros. Drug Co. St. Louis, celebrates 70th anniversary.
- 18.—Co-operative chemical exposition proposed by Adriaan Naglevoort.
- 19.—Monsanto Chemical Wks., imports first phenol brought into U. S. since 1914.
- 20.—F. S. Dickinson resigns as Chief of Drug & Chemical Control Section of Customs Service.
- 21.—British Dyestuffs Corp. becomes exclusive import agent for German dyes in Great Britain.
- 22.—Tariff Bill passes Congress.
- 23.—American Electrochemical Society meets in Montreal, Canada.
- 24.—President Harding signs Fordney-McCumber Tariff Bill and it becomes law on Sept. 22.
- 25.—Seydel Chemical Co. declares 8 per cent dividend on preferred stock.
- 26.—James MacDougal, president of the American Trona Corp., dies.
- 27.—German chemical exports fell off 34 per cent during first half of 1922.
- 28.—James Lund, vice-president of Merrimac Chemical Co., died at Malden, Mass.

October

- 1.—Propose hearings by Tariff Board to solve new tariff problems.
- 2.—William M. Rand made general salesmanager of Merrimac Chemical Co., Boston.
- 3.—Forty-eighth annual meeting of the National Wholesale Druggists' Assn., Colorado Springs, Colo.
- 4.—Hajime Hoshi, head of the Hoshi Pharmaceutical Co., Tokio, arrives in U. S.
- 5.—Frank S. Washburn, formerly president of American Cyanamid Co., dies at Rye, N. Y., age 62.
- 6.—F. E. Bogart of Detroit elected president of the N. W. D. A.
- 7.—Pennsylvania Salt Co reports profit of \$938,188 for fiscal year 1922.
- 8.—Numerous sharp price advances reported in many chemicals.
- 9.—T. Fujisawa & Co., Osaka, Japan, announce that they will discontinue New York office on Oct. 31.
- 10.—C. R. De Long of Chemical Division transferred back to Tariff Commission, and C. C. Concannon becomes acting chief.
- 11.—Synthetic Organic Chemical Manufacturers' Assn. protests against insufficient tariff rates on dyestuffs.
- 12.—John L. Thompson Sons & Co., Troy, N. Y., oldest wholesale drug house in U. S., celebrates 125th anniversary.
- 13.—German chemical industry reported hampered by lack of coal and raw materials.
- 14.—Walter Herbert Fulweller of Philadelphia wins Grasselli Medal.
- 15.—Control of trade associations urged by attorney general.
- 16.—German dye deliveries on reparations take big slump.
- 17.—Wood chemicals continue spectacular price advances.
- 18.—N. W. D. A. suggests trade advisory committee on industrial alcohol.
- 19.—Chemical Foundation files answer to Government suit denying conspiracy.

November

- 1.—Tariff changes and character of evidence required by Commission, explained.
- 2.—Texas Gulf Sulfur Co. earns \$1,075,468 during the third quarter of 1922.
- 3.—Frederick Kuttroff of Kuttroff, Pickhardt & Co., dies, age 49.
- 4.—Production of nitrates in Germany reported double the pre-war capacity.
- 5.—Clause for 25 per cent liquidated damages in bonds of alcohol users brings storm of protest from American manufacturers.
- 6.—Elmer H. Bobst Hoffman-La Roche Chemical Wks., elected president of N. Y. Druggists Club.
- 7.—Reports from Tokyo indicate short insect powder crop for 1922.
- 8.—Trieste asking higher prices for insect flowers for shipment.
- 9.—Spencer Kellogg, pioneer linseed oil man, dies at Buffalo, N. Y.
- 10.—New narcotic regulations issued by Federal Control Board.
- 11.—Alcohol ruling calls for addition of benzol to rubbing formulae.
- 12.—Leading drug and chemical associations concentrate to fight "25 per cent alcohol bond" ruling.
- 13.—American Pharmaceutical Assn. carries alcohol bond protest to Harding.
- 14.—Increase E. I. du Pont de Nemours stock from \$80,000,000 to \$100,000,000 by issue of stock dividend, announced.
- 15.—Mathieson Alkali Wks. earns \$9 per share on common stock during third quarter of 1922.
- 16.—German companies advance prices for potash again in record demand.

- 20.—Chemical Salesman's Assn. issues preliminary report on the Chemical Exposition.
- 21.—Wm. J. Gesell, Lehn & Fink, dies at Montclair, N. J., age 57 years.
- 22.—Commissioner of Internal Revenue Blair reported prepared to rescind alcohol bond order.
- 23.—Dr. M. C. Whitaker, U. S. Industrial Alcohol Co., awarded Perkin medal.
- 24.—Sherwin-Williams Co. made a profit of \$2,754,581 for the year ending Aug. 31.
- 25.—Dr. Royal S. Copeland, U. S. Senator-elect, sees hope of adjusting narcotic laws.
- 26.—Demand for calcium arsenate to be 100 per cent greater, according to Atlanta advices.
- 27.—All wood chemicals continue to advance sharply, approaching war-time levels.
- 28.—Commissioner Blair issues new and less drastic alcohol bond rules.
- 29.—H. S. Gailer suggests agency system to avoid resale price fixing difficulties.
- 30.—German prices for potash continue to climb.

December

- 1.—Canada bought \$18,673,615 worth of American chemicals in year ending October, 1922.
- 2.—Arsenic stocks short and prices continue to climb upward.
- 3.—Insecticide & Disinfectant Manufacturers' Assn. meet in New York.
- 4.—Charles Robinson Smith succeeds Eversley Childs as president of the Allied Chemical & Dye Corp.
- 5.—Prediction of shortage of 140,000 pounds in oil citronella stocks for 1922, made.
- 6.—Georgia Board of Entomology announces state requires 10,000,000 pounds of calcium arsenate in 1922.
- 7.—Estimate arsenic production for 1922 at 10,947 tons while double this will be needed for 1923.
- 8.—Parke, Davis & Co. declares a 100 per cent stock dividend.
- 9.—Conference of arsenic producers, consumers, and Government officials confer on arsenic in N. Y. Producers will increase output if price is kept right.
- 10.—Figures show German potash prices advanced 145 per cent during November.
- 11.—L. A. G. Dru elected president American Trona Corp.
- 12.—American Synthetic Dyes, Inc., loses appeal in \$333,457 suit for war-time picric acid commission.
- 13.—Dr. Edward C. Franklin elected president American Chemical Society.
- 14.—Exemption for former German patents, to preserve status in litigation, is made in new Winslow Bill arranging for return of enemy property.
- 15.—Denatured alcohol formula No. 28-A authorizes use of gasoline.
- 16.—Report commission going to Germany to buy up chemical patents to be charged against cost of Rhine army, unconfirmed.
- 17.—Chinawood oil prices reach highest point in history.
- 18.—Only bottled-in-bond liquor may be withdrawn from bond for medicinal use, new ruling.
- 19.—Palmer H. Jadwin, president of O. H. Jadwin & Sons, New York, dies.

In presenting his annual report to President Harding, Colonel Thomas W. Miller, Alien Property Custodian, strongly urged the enactment of legislation to return all alien trusts of the value of \$10,000 and under. He estimated that there were 30,368 such trusts and the amount involved was \$44,362,002. The War Department is opposed to the plan, owing to the value of many patents for explosives and suits for their use by the Department during the War which are likely to be brought, about \$400,000,000 in claims having been filed already.

The resignation of Dr. S. W. Stratton as director of the Bureau of Standards, Washington, became effective Jan. 1. In a letter addressed to employees of the bureau Dr. Stratton expressed regret that "the necessary policy of economy during the past four years has prevented the development of many lines of the bureau's work the results of which are most urgently needed in the development of our commercial and industrial interests, and in meeting foreign competition at home and abroad."

The United States Circuit Court of Appeals, Philadelphia, has restrained the government from collecting several millions of dollars in taxes from Alfred I. Du Pont. The suit was brought against the collector of Internal Revenue for the Delaware District and was passed upon by the United States Circuit Court. The opinion of the Circuit Court affirms the decision of the District Court.

### TO BUILD \$2,000,000 POTASH PLANT

The Soda and Potash Corporation has been organized at Los Angeles, Cal., and incorporated in Colorado with capitalization of 100,000 shares of common stock of no par value and 250,000 shares of preferred. The company is to build a plant at Los Angeles estimated to cost between \$1,500,000 and \$2,000,000. An experimental laboratory for working out the processes of manufacture will be erected first. The company will make industrial and pharmaceutical sodas and industrial potash for the domestic and export market. The raw material will be mined in Nevada, where the company owns deposits of sodium sulfate, carbonate, bicarbonate, and sesquicarbonate. It is reported that magnesium carbonate and calcium carbonate have been found on the property.

The officers and directors are: C. W. Culpepper, president; Chas. W. Berry, vice president; Edward P. Shaw, treasurer; F. J. McGuire, secretary; these officers and Willard George and E. Neal Ames form the Board of Directors.

C. W. Culpepper, president, says: "We have owned the properties since 1916, during which time we have given them a thorough test, and we believe that we are warranted in saying that they are among the largest natural deposits in the world. One peculiar feature of our properties is the fact that the potash is in such a state that it will be possible to compete with the imported article at a good margin of profit to the corporation."

The Universal Soda and Potash Mines, Inc., of Delaware, is a holding company for the Soda and Potash Corp.

### WILL FLOOD U. S. WITH GERMAN POTASH

The Potash Importing Corp. of America has been organized to provide German potash to American consumers during the next five years. The headquarters will be in New York. The announcement is made by the Directorate of the German Potash Syndicate which will supply the potash. During 1922 Germany produced 1,300,000 tons of pure potash.

On the ground that German lands are insufficiently fertilized the Potash Syndicate has petitioned the Government not to apply the 70 per cent increase in freight rates to fertilizers, and to allow the fertilizer industry a reduction in coal taxes. The purpose is to increase the domestic use of potash in fertilizers.

Clarence Morgan & Co., 355 W. Ontario st./ Chicago, gave a Christmas party at the offices of the company on Dec. 23. In addition to a bonus distribution to all employees, gold pieces were given at the entertainment and a "grab bag" drawing was held. Luncheon was served and was followed by dancing. Among those present were Mr. and Mrs. Clarence Morgan and daughter, Mr. and Mrs. Harry Spohr, the Misses Fannie Shapiro, Marguerite Dayton and Florence Graham, and Messrs. A. H. Mertens, C. M. Black and J. F. Turner.

Linder & Meyer, of Boston, are celebrating their 75th anniversary. The firm was founded by George Linder and George Augustus Meyer in 1848. For the past thirty years they have been located at 89 State St. The present members of the firm are John F. Linder, George von L. Meyer, and John F. Linder, Jr. Mr. Linder Jr., is of the fourth generation of the family and Mr. Meyer is of the third, a member of both families having always been in the firm since its foundation.

### Trade Notes and Personals

The Trico Chemical Co., Inc., Iroquois Bldg., Buffalo, N. Y., has increased its capital from \$10,000 to \$50,000.

Herman A. Metz has been appointed as one of three public representatives on the Board of Directors of the Interborough Rapid Transit Co..

The plant of the Synthetic Iron Coloring Products Co. at Seventeenth and Chanslor sts., Richmond, Cal., was damaged by fire recently, but most of the loss was confined to the dryer.

Contracts having for their purpose the maintenance of an open shop labor policy are held to contravene the conspiracy clauses of the Clayton act under a ruling of Attorney General Daugherty.

The Stauffer Chemical Co. has let the contract for the construction of its new plant at Chester, Pa. The buildings will be one and two stories, of brick and steel, with tile roofs, and are to be completed in four months.

The Maryland Section of the American Chemical Society held a meeting at the rooms of the Engineers' Club on Dec. 29, when Drs. W. M. Thornton, Neil Gordon and W. P. D. Penniman made addresses. The annual subscription dance of the section will be held on Friday, February 2, at the club.

Peter David, president and manager of the Puget Sound & Alaska Powder Co., with main offices at Seattle, Wash., was a visitor in San Francisco, recently, to make purchases of acid, glycerin, caps and fuses. Business conditions are reported to be much better in the Northwest than in a long time, with the outlook bright for a revival in mining in Alaska.

Customs Collector William B. Hamilton, of San Francisco, has compiled a report indicating that imports and exports through San Francisco for 1922 will show a great gain over those of 1921. Imports for the first nine months of the year amounted to \$117,609,600, as compared with \$71,510,281 for the same period of 1921. Exports for the first nine months of 1922 totaled \$96,794,130, as against \$90,388,903 for the same period last year.

Under a court order Thomas G. Haight of Jersey City is authorized, as equity receiver for the British American Chemical Company, to sell the defunct concern's lands, buildings and equipment for \$80,000 to Herman M. Hess and Michael Densen, owners of the Bogota Folding Box Co., of Bogota, N. J. The plant is located at Ridgfield Park, N. J., and consists of a series of buildings containing 55,000 square feet of floor space and covering seven acres.

In connection with complaints that have been made recently regarding the sale of alleged deteriorated drugs and chemicals by the War Department the Surgeon General of the Army has instructed officers in charge of surplus sales to make a statement at all sales of surplus drugs and chemicals that the commodity either meets the requirements of the Pharmacopoeia or that it has deteriorated to such an extent that it cannot be made to conform to recognized standards.

# JAPAN SUFFERS FROM TOO MUCH SODA

(Special Correspondence to DRUG & CHEMICAL MARKETS)

Tokyo, Japan, Dec. 16.—Soda and bleaching powder manufacturers met in Osaka Dec. 15 to devise means to keep up prices. Since July, 1920, members of the Bleaching Powder Manufacturers' Association have had an agreement to limit production and have curtailed their output 65 per cent, but the production has greatly increased owing to the establishment of new companies, and domestic consumption and exports have declined. The supply of caustic soda has likewise far exceeded consumption since 1919, due to increased output at home coupled with a large increase in speculative imports. The production of bleaching powder in 1920 was 54,000,000 pounds.

The price of bleaching powder dropped during 1920 from yen 17.50 per hundred pounds to yen 10.50, and caustic soda from yen 10.20 per hundred pounds to yen 6.50. Manufacturers claim that these prices scarcely cover the cost of production. A committee was appointed to find a solution of the situation.

# JAPAN TAKES 1,900,000 lbs. CAUSTIC SODA

(Special to DRUG & CHEMICAL MARKETS)

Washington, D. C., Jan. 10.—Exports of cyanide during October were valued at \$17,747; borax \$50,587; soda ash \$55,593; sodium silicate \$26,132; sal soda \$17,147; Caustic soda \$263,525; bicarbonate of soda \$26,000; and all other sodium compounds \$173,425.

More than 8,600,000 pounds of caustic soda were exported in October. The principal shipments were to Japan, 1,914,137 pounds; Canada, 1,650,000 pounds; Philippine Islands, 983,658 pounds; Cuba, 723,891 pounds; Argentina, 708,600 pounds; Mexico, 390,000 pounds; Brazil, 293,000 pounds; Italy, 224,800 pounds.

# RUSSIA REQUIRES LICENSE FOR IMPORTS

(Special to DRUG & CHEMICAL MARKETS)

Washington, D. C., Jan. 10.—The Russian Commissariat for Foreign Trade has decreed that all persons, co-operatives and State organizations importing goods on their own behalf, must possess, in every separate case, a special license authorizing the importation of goods into Russia. This license may be obtained from the Commissariat on presentation of detailed information regarding the source and destination of the goods required, to which request five copies of the purchase or sale contract must be attached. A tax equal to 2 per cent of the value of the goods will be payable in each instance.

The Columbia Steel Corp. has been organized at San Francisco, with capital stock of \$20,000,000, to consolidate the Columbia Steel Co., with a plant near that city, with the Utah Coal & Coke Co. The corporation will build a blast furnace and by-products coke oven at a site in Utah between Provo and Springville for the manufacture of pig iron to supply the California mill, which will be enlarged. The officers of the new organization are W. E. Creed, president; J. D. Grant, first vice-president; Joseph Sloss, vice-president and treasurer; D. H. Blotchford, vice-president; L. F. Rains, vice-president, and John D. Fenstermacher, secretary.

The Baltimore Retail Druggists' Association will hold its annual banquet and meeting on March 1 at the Emerson Hotel.

# GREATER ARSENIC OUTPUT PROMISED THIS YEAR IF PRICES ARE MAINTAINED

American Cotton Association Through Dr. Miller Reese Hutchison, Assures Cotton Farmers of Adequate Supply of Calcium Arsenate at 15 Cents Per Pound—Smelter Companies Prepare for Larger Production

(Special to DRUG & CHEMICAL MARKETS)

Washington, D. C., Jan. 10.—The American Cotton Association, which has undertaken to supply calcium arsenate for fighting the boll weevil, has appointed Dr. Miller Reese Hutchison of New York managing director of scientific research. Dr. Hutchison has issued the following statement of his plans:

"If the South will furnish the money for an educational campaign for the purpose of teaching the farmer how to use calcium arsenate I will assure them of 25,000 tons of calcium arsenate, Bureau of Agriculture specifications, ready for application by July, available at not above 15 cents per pound at any Southern port for the following year, 75,000 tons, and for the year after that, 100,000 tons or as much as is necessary from then on.

"The fund of \$2,500,000 which is to be available for the purpose of developing the campaign, is surely big enough to encourage invention and assist in the development of calcium arsenate saving devices. I may also state that containers which will prevent the conversion of calcium arsenate into calcium arsenite, which is poisonous to the plant itself, are also being prepared."

The campaign will open in February at Memphis, Tenn., when a conference will be held to decide on the methods to be pursued in the use of calcium arsenate in fighting the boll weevil. Experiment station directors and leading cotton farmers from all over the South are expected to attend the conference. The Department of Agriculture is preparing to undertake an extensive campaign in the Coastal Plains States of the cotton belt to improve present methods of controlling the pest.

The source of the calcium arsenate promised by Dr. Hutchison is supposed to be the Salt Lake City Insecticide Co., which is planning to extract arsenic direct from ores, but Dr. Hutchison is reticent on this point. The maximum production estimated by the Salt Lake City company is fifteen tons daily, which would give a total output for the next six months of 2,700 tons of arsenic by working seven days a week.

Dr. Hutchison believes that the total production of calcium arsenate can be brought to 100,000 tons next year and 250,000 tons the following year, and that this can be made available at a constantly decreasing price. Dr. Hutchison says that since the publication of his original statement, he has received offers of a considerable tonnage of calcium arsenate at a price which, duty free, will not exceed 15c per pound c. i. f. Southern ports. He believes that in the existing crisis there will be little difficulty in persuading the Government to consent to a temporary removal of the 25 per cent duty now in force on the material. Dr. Hutchison stated that he had taken well into account the effect which his announcement would have upon those already interested in the production of calcium arsenate and that, had he not been sure of his ground, he would not have made the statement which he did.

H. M. Brush, general sales manager of the American Smelting and Refining Company, said that his company's production in 1922 was twice that of 1921, while sales were six times those of the preceding year, and that sales during 1922 averaged approximately 7½c per



pound. Sales records of this company show a tremendous fluctuation, month by month, which makes it practically impossible for the producer to predict market or price. Mr. Brush thinks if it were possible to stabilize the arsenic market at a price between 8c and 10c, it would be possible for domestic producers to meet any demand of the insecticide manufacturers. He is of the opinion also that it would be possible for the company to increase production of white arsenic during the early months of 1923. He contemplates an expansion in Mexico, which would result in an increased supply of arsenate.

F. Y. Robertson, of the United States Smelting and Refining Company, stated that their production was contracted for up to June, 1923, at an average price of 8.3c per pound. He stated also that it is his opinion that the question of price has more to do with production of white arsenic than production of copper; that a price of white arsenic around 6c or 7c made it attractive for the smelters to recover arsenic from their ores. He confirmed Mr. Brush's statement that if it was possible to stabilize the price at a point where recovery was profitable the smelters could meet the demand.

H. Bernstorff, of the American Metal Company, producers of white arsenic in Mexico, stated that their output at one time varied between 200 and 500 tons per month. However, a recent change in the type of ore they have been receiving has practically prevented further production.

O. A. Hasse, of the Glidden company, expressed the opinion that some method must be found for stabilizing the demand of arsenical insecticide from the agricultural consumer back to the producer of white arsenic before there could be much relief from the present situation and from future emergencies of a like nature.

#### CHEMICAL COURSE FOR SALESMEN STARTS

The first course in chemistry for chemical salesmen under the auspices of the Salesmen's Association of the American Chemical Industry, held its initial meeting on Friday evening, Jan. 5, at the College of the City of New York. Dr. F. E. Bréithut has charge of the course and delivered the first lecture to the forty-six salesmen who attended. John Boyer, salesmanager for the Mathieson Alkali Works, and president of the Salesmen's Association, announced before the lecture that prizes of \$25, \$15 and \$10 will be awarded for the three best essays submitted at the close of the course on "The Value of Chemical Training to a Salesman."

About twenty-five or thirty of the leading American chemical manufacturing firms are represented in the course. Applications for the next group are now being received by D. H. Killeffer at the Chemists' Club, New York.

The Philadelphia Chemical Club is at present arranging a similar course for salesmen to be given at the University of Pennsylvania.

Officers of the Lynn Co., wholesale drugs, Akron, O., have been indicted for prescription frauds. Martin Burke, a cafe owner of Pittsburgh, Pa., who was indicted with the officers of the Lynn Co., was convicted and fined \$2,000 and sentenced to 13 months in the Atlanta Federal prison.

The Anderson-Hillier Co.'s crude drug mill, 75 Hudson st., Jersey City, was damaged by fire on Saturday, Jan. 6, to the extent of \$50,000. The fire company of Colgate & Co. in the next block, aided the Jersey City Department.

### Financial Notes

The Eagle Picher Lead Co. has declared the regular quarterly dividend of 1½ per cent on the preferred stock, payable Jan. 15 record Jan. 5.

The American Glue Co. has declared the regular quarterly dividend of 2 per cent on the preferred stock, payable Feb. 1 to stock of record Jan. 13.

The bond issue of \$50,000,000 first mortgage 5½ per cents of Armour & Co. was sold this week at 96. The bonds will yield 5.75 per cent at this price.

The Pittsfield Lime & Stone Co. has declared the regular quarterly dividend of \$2 a share on the preferred stock, payable Jan. 1 to holders of record Dec. 1.

The Royal Pharmaceutical and Perfumery Company, Inc., of 49 East 102d Street, filed schedules in bankruptcy Jan. 8, listing liabilities of \$7,907 and assets of \$353.

Directors of the Dow Drug Co., Cincinnati, O., paid an extra dividend of 5% on the common stock, in addition to the regular quarterly dividends of 1½% on the common and of 1¾% on the preferred, Jan. 1 to holders of record Dec. 21.

The initial dividend of 25 cents a share quarterly declared on the \$25 par value stock of the Canadian Industrial Alcohol Co. places the stock on a 4 per cent annual dividend basis. The dividend is payable Jan. 15 to stock of record Dec. 31.

Earnings of the United States Industrial Alcohol Co. for the last three months of 1922 were the largest for any quarter in peace times. The company's sales of denatured alcohol and by-products were the best since the formation of the company.

The \$60,000,000 of Armour & Company of Delaware 7 per cent preferred stock was all subscribed for on the first day that it was offered. This was one of the largest issues of preferred stock ever offered and was all sold within less than 48 hours of the opening of the books Tuesday morning, Jan. 2.

German marks declined from .0134 hundredths of a cent to .0122 hundredths of a cent, on announcement of the failure of the Premiers' Conference. Sterling declined three-quarters of a cent. The franc, which closed on Jan. 3 at 7.23½ cents, dropped to 7.02¼ cents. The Italian lira declined from 5.17 to 5.08¼.

The following judgments, affecting concerns in the chemical trade, were entered last week: Innis Speiden & Co. against the Raritan Refining Corp., \$1,875.10; Marx & Rawolle, Inc., against Murray Rose, \$320.13; Payson Varnish Co., against the Liberty Painting & Decorating Co., \$563.57; E. I. du Pont de Nemours & Co., Inc., against the Alliegro Construction Co., \$1,645.21.

Checks representing \$3,437,246.75, the amount of the January dividend of the Eastman Kodak Co., have been mailed to stockholders. The dividend checks represent \$956,556.50 for the extra dividend of 50 cents a share on the common stock and \$2,480,690.25, the regular dividend of \$1.25 a share on common and preferred stock. The company also mailed checks for Kodak, Ltd., of England, amounting to \$183,850.75.



## QUOTATIONS ON CHEMICAL STOCKS

	Bid	Asked		Bid	Asked
Air Reduction .....	58½	59	Hercules Powder ...	96	97
*Allied Chem. & D. 77½	78		Hercules Powd., pf. 101½	103	
*Allied Ch. & D., pf. 110½	112		Heyden Chem .....	2½	2½
Am. Ag. Ch. ....	32½	32¾	Hooker Electro ....	55	65
*Am. Ag. Ch., pf. ....	61	61½	Hooker Electro, pf. ....	60	70
*Am. Chicle .....	7	7½	*Int. Agricult. ....	6½	8
*Am. Chicle, pf. ....	28		*Int. Agricult., pf. ....	30	30¾
*Am. Cot. Oil. ....	19	19½	*Int. Nickel .....	15½	15¾
*Am. Cot. Oil, pf. ....	34½	37	*Int. Nickel, pf. ....	70½	75
*Am. Cyan. ....	15	20	*Int. Salt .....	83	
*Am. Cyan., pf. ....	53	56	*Mathieson Alk. ....	50½	51
*Am. Druggist S. ....	6½	6½	Merck & Co., pf. ....	74½	77½
Am. Glue .....	82	85	Merrimac .....	83	88
Am. Glue, pf. ....	124	126½	Mulford Co. ....	35	40
*Am. Linseed .....	30	32	Mutual Co. ....	150	
*Am. Linseed, pf. ....	32	34	*National Lead ....	126	127
*Am. Zinc .....	12	13	National Lead, pf. 113¾	114	
*Am. Zinc, pf. ....	16½	17½	N. J. Zinc .....	171	173
*Amer. Zinc, pf. ....	48	52	Niag. A., pf. ....	95	100
Atlas Powder ....	145	155	Parke, Davis & Co. 74½	75	
Atlas Powd., pf. ....	87	90	Penn. Salt .....	82	84
British Am. Chem. ....	1		People's Gas. Chi. ....	91	92½
By. Prod. Co. ....	57	65	Procter & Gamble. 124	128	
Carborundum ....	135	135½	Procter & Gam., pf. 102	106	
Carborundum, pf. ....	115½	116	Royal Bak. Po. ....	125	
Casein Co. ....	30	45	Royal Bak. Po., pf. ....	98	100
Celluloid Co. ....	92	98	Sherwin-Williams ...	27½	28½
Celluloid Co., pf. ....	109	110	Sherwin-W., pf. ....	93	97
Ches. Mfg. ....	205	215	Stand. Ch. ....	90	100
Ches. Mfg., pf. ....	112	115	Swan & Finch. ....	24	28
Com'l Solv. A. ....	43½	43½	*Tenn. C. & Chem. ....	113½	112½
Do. B. ....	27	35	*Tex. Gulf. Sul. ....	59½	60
*Corn Products ....	126½	126½	Union Carbide ....	64½	66
*Corn Products, pf. 119½	120½		Union Sulphur ....		
*Davison Chem. ....	33½	34	*Un. Drug .....	80	81
Dow Chem. ....		200	*Un. Drug, 1st pf. ....	47	47¾
Dow Ch., pf. ....	103		*Un. Dyewood ....	42	
Du Pont de Nem. 113½	114		*Un. Dyewood, pf. ....	94½	95½
*Du Pt de Nem. Db. 85	86½		Un. Gas. Imp. ....	51	51½
Eastman Kodak ....	94	94½	Un. Gas. Imp., pf. 58½	55¾	
Eastman Kodak, pf. 110			U. S. Gypsum. ....	62½	63
*Freeport, Tex., Sul. 19½	20½		*U. S. Indus. Al. ....	67½	68
Freeport, Tex. Sul. pf. 91	93		*U. S. Indus. Al., pf. 95½	99	
*Grasselli .....	128	132	*Va.-Car. Ch. ....	25½	26
*Grasselli, pf. ....	100	101½	*Va.-Car. Ch., pf. ....	62	63½
			*V. Vivaudou .....	16½	16½

\*Listed on New York Stock Exchange

## B. &amp; J. SUED BY U. S. FOR \$1,151,000

The receivers of the Butterworth-Judson Corp. of New York have been sued by the Government for \$1,151,000 expended by the company from a fund advanced on a contract for the construction of a plant at New Brunswick, Ga., for the manufacture of 72,000,000 pounds of picric acid. The plant was to cost \$7,000,000.

Approximately \$8,500,000 was expended and the plant was about 50 per cent completed when the contract was terminated by the cessation of hostilities.

In April creditors instituted suits in this city and New Jersey for the designation of a receiver for the defendant corporation, it being alleged it was unable to satisfy maturing obligations.

It is alleged by the Government that the revolving fund advanced to the defendant corporation was partially deposited with various banks in this city, which the Government says was a wrongful conversion of trust funds, and that the banks are not entitled to retention of the deposits.

At the time of the suit for a receiver the defendant corporation had \$528,009 deposited with the Chase National Bank, American Exchange National Bank, New York Trust Company and National Newark & Essex Banking Company.

Schering & Glatz, Inc., drug specialty manufacturers, with offices at 150 Maiden Lane, New York, have incorporated under New Jersey laws, with capital of \$500,000. The company was transferred from New York to New Jersey because about ninety per cent of its holdings are located in the latter state.

The International Nickel Co. has declared the regular quarterly dividend of 1½¢ on its preferred stock, payable Feb. 1 to stock of record Jan. 18.

## A. D. S. MAY SOON PAY DIVIDEND

The financial statement of the American Druggists Syndicate just issued by Charles H. Goddard, president, gives the following details: Assets: Cash on hand, \$700,000; government bonds \$600,000; first mortgage real estate bonds \$275,000; accounts receivable \$1,000,000; inventory \$1,350,000; free and unincumbered real estate and equipment \$2,300,000; formulae, trade marks good will \$542,092; total \$6,767,091. It is stated that as against this the company will have current accounts payable only of approximately \$150,000. The only other liability of any character will be covered by the common stock issue aggregating a total of 678,321 shares, which at \$10 par amounts to \$6,783,210.

A circular to stockholders says: "Our sales show a steady increase in volume from the beginning of 1922. The last six months of the year will exceed \$3,000,000 and through the efficiency of our production department, this largely increased volume has been handled in about one-half the floor space heretofore occupied, which has permitted us to rent to responsible tenants on from three to five year leases, space which is yielding us now in rentals, approximately \$1,000 a year.

"On account of the wide distribution of our stock in small lots (many thousand members holding but one share of \$10 par), the expense of distributing dividends represents much too large a proportion of the amount distributed. For instance, to pay a quarterly dividend of 2 per cent on a single share would mean that, four times a year, we would have the expense of auditing, mailing, etc., to distribute a 20c dividend allotment, a distributing cost amounting to about 20 per cent to 25 per cent of the dividend paid. This is obviously uneconomical. Our attorneys suggest filing amended articles of incorporation changing the par value of the stock from \$10 to \$50 a share and exchanging one share of the new stock for each five shares now outstanding."

Mr. Goddard says he believes the time is near when the company can pay dividends again.

## 10,152 MARKS TO THE DOLLAR

When reports by cable reached Wall Street on Jan. 8, indicating that France intended to occupy the Ruhr district, German marks established a new low price in the New York market, selling at 98½ hundredths of a cent, or 10,152 to the dollar at the extreme low. Francs were extremely weak and nervous, too, reaching a low of 6.63, as compared with 6.91½ cents on Saturday.

French bonds were weak and nervous, the 8 per cent issue dropping two points net. Both the 8 per cent and the 7½ per cent bonds which have been sold in the New York market are within 1 per cent or so of the lowest points they have reached. Sterling closed unchanged from Saturday. The stock and bond markets paid scant attention to the foreign news.

The Corn Products Refining Co., in answering the complaint filed by the Federal Trade Commission denies that the practice of selling its syrups with a guaranty against price decline was for the purpose of hindering or suppressing competition. It was adopted, it was stated, only after it had become a trade practice in recognition of the fact that when an article is sold by dealers in the original package of the manufacturer and under the manufacturers' name and trade mark, dealers with stocks of such articles on hand should be protected within reasonable limits against the risk of reductions in price by the manufacturer.

## The Heavy Chemical Market

Current Spot Quotations of Heavy Chemicals, page 96

### CAUSTIC POTASH SHOWING STRENGTH

**Large Stocks on Hand During The Fall Have Passed Into Consumers Hands—Arsenic Still Changing Hands at High Prices—Prussiates In Fair Demand**

#### PRICE CHANGES IN NEW YORK (Stocks in First Hands)

Ammonium Chloride, ¼c lb.	Advanced Potash, Caustic, ¼c lb.
Sodium Cyanide, 1c lb.	Declined Oxalic Acid, ½c lb.

	Trend of the Market					
	Today	Last Week	Last Month	Last Year	War Peak	Pre-War
Acetic Acid, Glacial....lb.	\$12	\$12	\$13	\$09	\$19½	\$07
Sulfuric Acid, 66 deg..ton	14.00	14.00	14.00	16 50	55.00	20.00
Bleaching Powder,						
Works .....100 lb.	2.00	2.00	2.00	2.25	9.50	1.50
Copper Sulfate .....100 lbs.	6.00	6.00	6.00	5.55	20.00	4.50
Potash, Caustic .....lb.	.06¾	.06¾	.06¾	.06	.87	.08
Saltpetre, gran. ....lb.	.07½	.07½	.07½	.07¾	.35½	.34½
Soda Ash, 58 p.c....100 lbs.	1.80	1.80	1.80	1.75	3.50	.60
Caustic Soda, 76 p.c.100 lbs.	3.55	3.55	3.55	3.70	9.50	1.42
Potassium Bichromate .lb.	.10	.10	.10	.10½	.65	.06½
Average .....	3.068	3.068	3.068	3.330	11.06	3.14

Business in heavy chemicals is beginning to improve after the inventory period and the holidays. The volume of spot business has not assumed very large proportions as yet, due to the fact that considerable contract business has been placed for delivery beginning the first of the year. However, there has been a steady call for supplies in many items and factors are optimistic about the future for chemicals. One of the important developments during the week has been the gain in strength of caustic potash. This material has been weak for a long time owing to the fact that large supplies have been on hand while demand has been slow. Gradually stocks have passed into consumers hands, while costs and shipment prices have advanced abroad, which is reflected in higher quotations in this country. Arsenic continues to hold interest and considerable business is being put through with prices holding fairly steady. Prussiates have been in fair demand. Stocks of these materials are reported to be running low and prices are becoming firmer. Makers have reduced sodium cyanide. Oxalic acid is lower at works. Copperas continues very scarce. Bleach is scarce and makers are not in a position to offer freely. Soda ash is in strong demand. Ammonium chloride is firmer. Copper sulfate is in good demand and firm in price.

**Acid, Acetic**—Producers still maintain their schedule of quotations with 28 per cent named at \$3.17½@3.42½ according to quantity. 65 per cent quoted at \$6.35@6.60. 70 per cent held at \$7.94@8.19. Glacial \$12.50@12.80 as to quantity.

**Acid, Hydrofluoric**—Demand has been along steady routine lines with 30 per cent quoted at 5c@6c/lb. 48 per cent at 10c@11c. 52 per cent, 11c@12c. 60 per cent, 13c@14c. White acid, 25c@26c.

**Acid, Muratic**—Considerable contract business was done at the close of the year and the first week or two of the new year is not expected to show a very large amount of business. Makers are quoting 18° in tanks at 90c@\$1.00 per 100lbs. 20° in tanks at \$1.00@\$1.10 and in carlots of carboys at \$1.10@1.50. Iron-free

named at \$1.35 in carlots of carboys. 22° in carboys \$1.75@\$2.00.

**Acid, Oxalic**—Competition between domestic and imported has gradually forced prices downward and it is now possible to do 13c/lb at works. Imported is quoted at 13½c/lb.

**Acid, Sulfuric**—Makers report a steady demand and the business during the latter part of 1922 was exceptionally good. Tank cars of 66° are quoted at \$14.00@16.00 per ton at works. Carboys in carlots at 95c@\$1.25 per 100 lbs, works. 60° acid in tanks named at \$9.00@\$11.00 at works. Oleum \$17.00@18.00 ton in tanks.

**Acetone**—C. P. in carlots is holding steady at 21c/lb at works. In less than cars quoted at 21½c/lb.

**Alums**—Continue in steady demand with domestic supplies somewhat limited and good call for imported material. Ammonia lump is quoted at \$3.50@\$3.65 at works. Ground at \$3.60@\$3.75. Powdered at \$3.90@\$4.00. Imported lump at \$3.25@\$3.50. Potash lump at works \$4.25. Imported at \$3.25@\$3.50.

**Aluminum, Sulfate**—Domestic producers are quoting iron-free in carlots of bags at \$2.50@\$2.65 per 100lbs. Imported material quoted at \$2.50@2.60. Competition is quite strong. Commercial named at \$1.45@\$1.50 in carlots of bags at works. Barrels \$1.60.

**Arsenic**—The week has been active in trading and considerable business was put through at 15½c/lb on spot. Announcement of abundance of arsenates this summer had no bearish effect upon the market as sellers of arsenic feel quite certain of their position as regards arsenic supplies. Calcium arsenate makers announce 16c@19c/lb in carlots at works with stocks in limited supply. Less than cars at 18c@20c/lb.

**Bleaching Powder**—Demand from consumers has been very strong and makers are busy supplying contract orders. Supplies are not over abundant and in some cases producers are not in position to deliver. Contracts range from \$1.90@\$2.00 at works. Carlots at works named at \$2.15@\$2.25. Spot material held at \$2.25@\$2.40.

**Copper Sulfate**—As the buying season begins, prices are becoming firmer. Demand has been increasing of late. Crystals in carlots are quoted at \$6.00@\$6.25 per 100lbs according to seller. Powdered named at \$7.25@\$7.50.

**Copperas**—Scarce in first hands and prices are firm at recent quotations. Bulk named at \$20@\$21 per ton at works. In bags at \$23 and barrels at \$25.

**Potash, Caustic**—Old stocks have become depleted and higher prices are being quoted for recent shipments. Named at 6¾c@7c/lb by prominent dealers.

**Potassium Prussiate**—Demand is improving after a dull period and quotations are holding steady. Yellow is being quoted at 38c@39c/lb. Red is not plentiful and is held at 85c@90c/lb according to quantity.

**Soda Ash**—Demand has been strong with prices unchanged. On contract quoted on basis of \$1.20 per 100lbs for 48 per cent in bags at works. Ex-warehouse in less cars at \$2.01. Resale named at \$1.75@\$1.90.

**Sodium Prussiate**—Has been somewhat easy and sales have been made at 18½¢@19½¢lb.

**Soda, Caustic**—Heavy contract business is keeping makers busy while spot business is rather quiet at present. Spot quoted at \$3.50@3.60. Ex-warehouse, \$3.72. Contracts, \$2.50 for carlots basis 60 per cent at works.

Standardized classification of all colors appearing on the standard and seasonal cards of the Textile Color Card Association of the United States has been completed by the National Association of Finishers of Cotton Fabric. The classification for cotton arranges the colors according to strength, light, medium and dark. Light and dark color classifications are given for silks. 1,000 different shades issued by the Color Card Association are covered and will be kept up to date with the issuance of new color cards. The adoption of forty colors as standards by the National Knitted Outerwear Association, using the designation of the standard color card, is also announced. Chemical formulas for dyeing and the resistance of each color to light, washing, perspiration and rubbing have also been tabulated.

The following announcement is being sent to collectors of customs by Assistant Secretary Clifford in connection with countervailing duties on chloride of lime: "As calcium acetate is the only one of the articles specified in Paragraph 1541 of the Tariff Act of 1922 that is subject to countervailing duty, collectors should disregard the Canadian rates of duty for chloride of lime published in T. D. 39346 of Dec. 7, 1922, and for calcium nitrate and cyanamid or lime nitrogen published in T. D. 39364 of December 18, 1922."

The Government sale of 10,007 tons of nitrate of soda, bids on which were opened at noon, January 8, in the office of the District Ordnance Salvage Board, Army Building, New York, brought out good prices. The awards ranged from \$41.10 to \$51 a ton and the buyers were distributed between importers and Western powder interests. The material is located at Nitro, W. Va., and the sales were in quantities of 100 short tons or more.

The Wishnick Tumpeier Chemical Co., Chicago, has been appointed sole selling agents for the Chicago Color Works at Waukegan, Illinois. The Chicago Color Works manufactures fer-ox yellow and fer-ox red. These colors are specially prepared iron oxides. Arrangements have been made to carry stocks at Cleveland and Chicago warehouses.

George Braden, president of the Federal Chemical Co., died Jan. 3, at his home in Louisville, Ky. He was sixty-nine years old. Mr. Braden organized the Federal Chemical Co. in 1902, manufacturing fertilizers, and directed affairs of that firm up to the time of his illness.

A special program commemorating the centenary of the birth of Louis Pasteur was observed at the joint meeting of the New York section of the American Chemical Society and the Societe de Chimie Industrielle held last Friday at the Chemists' Club, New York.

Fire, Dec. 22, in the Elmwood, Winnipeg, fertilizer plant of the Swift Canadian Co. caused damage estimated at \$36,000. The loss was fully covered.

Fire, Dec. 13, destroyed a portion of the Easton plant of the General Chemical Co., with a loss approximating \$22,000. It is planned to rebuild.

## Heavy Chemical Notes

The Southern Carbon Co., Monroe, La., is planning additional units at its plant, estimated to cost \$1,000,000, including machinery installations.

The following changes have been made in Mexican import duties: Carbonate of potash, carbonate of soda and soda ash will pay one centavo per kilo gross (½ cent American currency per 2.2 pounds).

The Surplus Property Division of the War Department has announced that sealed bids will be received in New York City, on Jan. 30, for 28,000 tons of sodium nitrate located at Old Hickory, Jacksonville, Tenn.

A recent report from Frankfort states that the German Potash combine has contracted with an American consuming group for the delivery of potash for several years with a yearly minimum which is said to be almost equal to the present sales of the combine.

Fire in the plant of the Jarecki Chemical Co., Cincinnati, now owned by the Armour Packing Co., destroyed 250 tons of sulfuric acid in lead vats which melted and allowed the acid to flow into the streets. Firemen were overcome by fumes and burned by the acid. The loss is estimated at \$75,000. The company will rebuild immediately.

Drew Chidester, vice-president of the General Steamship Co., has returned to San Francisco from a tour of inspection of Peru, Chile and Panama. He says that Chile has 1,000,000 tons of nitrate stored at sea ports awaiting export, most of which is unsold. It is expected that fully 75,000 tons of nitrate will be brought to Pacific Coast ports during 1923, which is 15,000 tons more than were imported in 1922.

Manganese ore containing 35 per cent or more manganese shipped from domestic mines in 1922, according to figures compiled by the United States Geological Survey from reports of producers of manganese, amounted to about 13,500 gross tons, valued at \$457,000. The ore of this grade shipped in 1921 amounted to 13,531 gross tons, valued at \$495,097. The new tariff act, which became effective Sept. 21, 1922, provides for a duty of \$8 a ton on ore containing 40 per cent of manganese, \$9 a ton on ore containing 45 per cent of manganese, \$10 a ton on ore containing 50 per cent of manganese, and so on. Manganese should therefore bring an average price on the eastern seaboard amounting to the present average price of foreign ore plus about \$9 a ton.

The smelter production of copper in 1922, according to the United States Geological Survey, as compiled from reports of the smelters covering the actual production for eleven months and the estimated production in December, was about 981,000,000 pounds, an increase of 475,000,000 pounds over 1921. Productive work was resumed by practically all the large mining companies except the United Verde Copper Co. by or during April, 1922, one year from the general shutdown of the copper mines. The smelter production of copper for December, as estimated by the producing companies, was 103,300,000 pounds, or at the rate of about 1,240,000,000 a year. The total production of new refined copper from domestic sources, determined in the same manner as the smelter production, was about 897,000,000 pounds, which is 288,000,000 pounds more than in 1921.



## The Fine Chemical Market

Current Spot Quotations of Fine Chemicals, page 98

### RESTRICTED ACTIVITY IN MEDICINES

**Japanese Camphor Prices Cut on Spot—Menthol Under Selling Pressure—Sugar Milk Firmer—Cocoa Butter Stronger—Podophyllin Again Higher—Heavy Imports of Quicksilver—Stronger Tone in Cod Liver Oil**

#### PRICE CHANGES IN NEW YORK (Stocks in First Hands)

	Advanced			Declined		
	Today	Last Week	Last Month	Today	Last Week	Last Month
Cocoa Butter, 1c lb.	\$35	\$35	\$35	Podophyllin, 50c lb.	\$33	\$200
Milk Sugar, resale, 1c lb.	.48	.48	.50	Silver Nitrate, 1½ oz.	1.25	.45
Camphor, Jap. ref., 3c lb.	3.75	3.75	3.75	Mercury, \$1 flask	4.00	18.00
Menthol, 25c lb.	1.25	1.25	1.25	Methyl Salicylate, resale, 2c lb.	.82	.90
	.88	.91	.94		.92	.41
	4.50	4.50	4.50		3.80	6.00
	9.75	10.00	10.00		5.25	13.50
	5.35	5.35	5.35		4.80	12.80
	.25	.25	.26		.19	4.30
	.49	.49	.50		.59½	.90
	.47	.47	.47		.30	4.25
	.84	.84	.84		1.05	2.05
Average	2.36	2.38	2.38		5.92	1.56

The week since last Wednesday has developed little in the way of important or unusual market changes. a tendency toward softness in some products has been more or less offset by firmness in others. The underlying tone, however, does not appear quite as strong as for some time past. Dullness and weakness in some items has chilled to some extent the optimism of sellers. At the same time, imports of numerous medicinals have been heavy. Viewing the market as a whole, however, prices are quite steadily maintained in the face of limited demand. Basically, the situation is sound and current dullness in all probability only temporary. Imported camphor has been cut again. Menthol is under pressure on spot as importers try to force sales. Sugar of milk is scarce. Cocoa butter is firmer. Heavy imports of mercury have weakened the market. Cod liver oil is stronger. Podophyllin has been advanced again.

**Acetanilid**—Makers name 35c@38clb U.S.P. bbls. Resale goods at 34c and steady.

**Acid Acetylsalicylic**—Manufacturers quote \$1.00lb unchanged. Resale lots still offering at 90c spot.

**Acid, Benzoic**—Firm prices at higher levels named by makers. Hundred pound lots 77c, 1,000 lb. lots at 72c lb. U.S.P. bbls.

**Acid, Carbolic**—Quiet at recent reduction on small size bottles, 1 lb. bottles commanding 46c.

**Acid, Tartaric**—Imports last week 430 bbls. at New York. Imported bbls. 30½c@31clb spot. American makers 32c.

**Alcohol, Wood**—American producers have adopted uniformly the name "methanol" for wood alcohol. Prices and market reports will hereafter be given under this heading by DRUG & CHEMICAL MARKETS.

**Caffeine**—Makers strong at \$3.75 lb. One or two

small lots of resale goods reported turned over at \$3.70 last week.

**Camphor**—Japanese refined gum has weakened steadily for two weeks past due to keen competition and lack of demand. Stocks are larger on heavier arrivals from Japan. Spot slabs in cases openly quoted at 88c lb. Tablets, genuine Jap in tins, \$1.04@1.05. American refiners quote on a basis of 96clb bulk basis without change. Shipment reported at 80c c.i.f.

**Cocoa Butter**—The stronger position of the bean is reflected in a firmer market for bulk cocoa butter on spot. Holders name 31c@32clb bales or bags. Cakes, fingers, etc. in boxes unchanged 36c@37clb with makers behind in deliveries. Total imports at New York last week were 569 bags from Rotterdam.

**Cod Liver Oil**—Demand from consumers has been steady. Recent imports have been smaller than usual with higher prices cabled from Norway for shipment. Spot strong but unchanged at \$22.50@23.50bbl.

**Formaldehyde**—Continues one of market's strongest items at 16clb bbls. N. Y. or works. Stocks still reduced and closely held. In active demand.

**Glycerin**—Position appears somewhat firmer at 18c lb. for C.P. in drums. Dynamite stronger at 16c@16¼c. Demand better.

**Hexamethylene**—Imported goods getting the call in most cases at 85clb spot. American makers at 95clb for U.S.P.

**Menthol**—Forty-two cases came in at New York from European ports last week. Buyers have practically withdrawn on spot and some holders are trying to force sales at the high prices ruling with little success. Sales have been reported for case lots at \$9.70 and \$9.75 spot, less one, which brings the price to about \$9.60. Less case lots are commanding \$10.00lb still. Lower prices are expected according to the local trade. For shipment \$8.00 c.i.f. has been heard.

**Mercury**—Shipments of 500 flasks of quicksilver came in at New York last week from Leghorn and went mostly to strong holders. Holders who were asking \$74.00 per flask a week ago, are reported willing to accept \$73.00 now on the strength of a firm order. Buyers are not displaying a great deal of interest and sales are confined mostly to small jobbing lots.

**Methyl Salicylate**—Where best for resale methyl salicylate spot New York a week ago was 52clb in cans, lots are now being offered at 50c. Makers adhere firmly to 57c basis cans, and 55c for drums.

**Podophyllin**—Another sharp advance in podophyllin has been made by manufacturers and prices now stand at \$5.75@6.00lb. Mandrake root is very scarce and located only at high prices.

**Quinine**—Some lots of imported sulfate selling freely on spot at 49coz. American makers reported doing a good business in this item at 50c. Prices firm at current levels.

**Sugar Milk**—Supplies of milk sugar in outside hands have been reduced to a minimum and are difficult to obtain at 22clb. Makers name 21cbbbls works, but are unable to make deliveries on prompt shipment orders.



### *Fine Chemical Notes*

While Japanese producers named 42s 6d up to 45s a pound for menthol for shipment to London during December, spot goods sold there at an average of 24s per pound.

Menthol in liquid form is reported being offered in London for use in products where crystals are not necessary. This article very probably contains a quantity of mint oil.

Edward H. Lyons, retired vice-president of I. W. Lyons & Sons, Inc., New York, manufacturers of tooth powders, died in New York on New Year's Day after a long illness. He was sixty-five years old.

The New York branch of the American Pharmaceutical Association held a meeting Monday, Jan. 8, at the College of Pharmacy Bldg., 115 West 68th st., New York, preceded by a dinner at the Edgetts Harbor Inn Restaurant.

The Superfos Co. is now selling agent for L'Appula, representing a merger of five manufacturers of citric and tartaric acid in Italy. The merger was reported to the Bureau of Foreign and Domestic Commerce, several months ago, by the American attache at Rome.

The award of the Perkin Medal to Dr. Milton C. Whitaker will take place on Friday evening, Jan. 12, at the Chemists Club. The presentation will be made by Prof. Charles F. Chandler. Other speakers will be Ralph H. McKee, A. A. Bachaus and Arthur D. Little.

Rowntree & Co., Ltd., of London, were recently fined £20 and costs for the sale of cocoa containing a small fraction of arsenic introduced in the potassium carbonate used in the mix. The presence of the arsenic resulted in the condemnation of about 300 tons of the cocoa.

Japan's exports of camphor during the first nine months of 1922 showed an increase of 15,603 piculs in quantity and 3,072,589 yen in value over exports for the similar period last year. The figures for 1922 were 23,289 piculs and 4,619,110 yen. About 5,000 more piculs were shipped to the United States than to the rest of the world combined.

The output by establishments engaged primarily in the manufacture of soap amounted to \$240,116,000 in 1921 as compared with \$316,740,000 in 1919, a decrease of 24.2 per cent in value of products, according to the Census Bureau. In addition soap products to the value of \$21,140,000 were produced in 1919 by establishments classified in other industries. Corresponding figures for 1921 are not available at this time.

The annual sales convention of the Smith, Kline & French Co., Philadelphia, was held last week. All the road representatives, department heads and officers were present at the meeting in the company's main offices, where J. Mahlon Buck, general sales manager, spoke to them on the policies for 1923. The annual banquet was held at the Hotel Adelphia, with C. Mahlon Kline, president of the company acting as toastmaster. Other speakers were, Admiral Wm. C. Braisted, Rev. Z. B. Phillips, Lester B. Johnson and Robert B. Smith.

### **\$500,000 FOR RAMSAY MEMORIAL**

The largest sum ever raised to honor a man of science has been contributed to the memorial for Sir William Ramsay, chemist. The amount of the fund is more than \$500,000. Former Premier Asquith of England was president of a committee which, in 1917, made an appeal for £100,000 to be devoted to a Ramsay memorial. Later the Prince of Wales became patron of the fund. The sum collected in cash is £57,645. It has been augmented by research fellowships instituted by various dominion and foreign governments, to the value of about £60,000.

The money, according to a report in "Science," will be devoted to the erection of a chemical laboratory at University College, London, and to founding the Ramsay Memorial Fellowships in Chemical Science for British Students. Each fellowship is of the value of £300. Ramsay is most noted for the discovery of the rare gases of the atmosphere—argon (with Lord Rayleigh), helium, krypton, neon and xenon. For twenty-six years Sir William Ramsay held his professorship in the University College. Dr. R. B. Moore, chief chemist of the U. S. Bureau of Mines, has written a biographical sketch of the great chemist in which he speaks of the exceptional skill of Ramsay as an experimenter and manipulator of chemicals in the laboratory. It was this skill which enabled him to discover and identify the rare gases. Ramsay also was noted for his work on radio-activity.

### **OFFERS NEW CHEMICAL CLASSIFICATION**

Prof. Charles A. Kraus, of Clark University, addressed the American Association for the Advancement of Science, in session in Boston, on a proposed new classification of chemical elements, as follows:

- (1) Electrolytes, which conduct even in the pure state.
- (2) Non-electrolytes, which conduct neither when pure nor when in solution.
- (3) Meso-electrolytes, which show a slight conducting power both in solution and when pure.
- (4) Pseudo-electrolytes (like the acids), which are non-conductors when pure, but ionize in solution because they combine with the solvent.

For more than a century chemists have made a sharp distinction in their thinking between metals, electrolytes, and non-electrolytes. This classification is based upon the different ways in which substances conduct the electric current, but also corresponds to marked differences in chemical character, as is easily seen if one thinks of iron, salt and gasoline as typical examples.

The annual sales convention of the J. S. Merrell Drug Co., St. Louis, was held last week, concluding with a dinner on Wednesday night at the St. Louis Club. Representatives of manufacturers for whom the Merrell company is distributor were present, including W. O. Bacon, district sales manager of McKesson & Robbins, New York, and E. Flint, local manager of Eli Lilly & Co., Indianapolis.

The J. T. Baker Chemical Co., Phillipsburg, N. J., have sent out a double post-card with the last issue of the "Chemist-Analyst," the Baker house publication, requesting all readers who desire to be continued on the mailing list to return the card with correct name and address. The object is to bring up to date their lists and eliminate "dead" names.

## The Intermediate and Dye Market

Current Spot Quotations of Intermediates, see Chemicals, page 96

### MANY PLANTS WORKING AT CAPACITY

**Manufacturers Unwilling to Contract for Deliveries More Than Three Months Ahead Owing to Uncertainty of Prices of Raw Materials—No Domestic Cresylic Acid on the Market—Price of Foreign Product Very High**

#### PRICE CHANGES IN NEW YORK (Stocks in First Hands)

Advanced  
Cresylic Acid, 10c gal.

Declined  
No Declines

	Trend of the Market			Last Year	War Peak	Pre-War
	Today	Last Week	Last Month			
Benzene, C.P. .... gal.	\$30	\$30	\$30	\$29	\$1.10	\$26
Naphthalene, flake .... lb.	.06	.06	.06	.07½	.16	.03
Phenol .... lb.	.35	.35	.35	.11	1.50	.43
Xylene, 2-deg. .... gal.	.45	.45	.45	.45	..	..
Toluene, pure .... gal.	.30	.30	.30	.30	..	..
Aniline Oil .... lb.	.16	.16	.16	.16½	1.40	.10½
Benzaldehyde .... lb.	.60	.60	.55	.45	..	..
Betanaphthol, dist. .... lb.	.24	.24	.24	.30	1.50	.08
Paranitroaniline .... lb.	.73	.73	.73	.77	1.85	.08
Average .....	0.352	0.352	0.348	0.325	1.25	1.67

The increase in the volume of contract business for the first few months of the year naturally affects the amount of spot business and the market is quiet. Makers report that plants are busy, however, and in many cases are operating at full capacity. Many manufacturers are taking on contracts for future delivery, but are unwilling to contract further ahead than three months owing to the uncertainty of prices of raw materials beyond that time. The market has been remarkably steady in intermediates, but the trend seems to be slightly upward in a number of products, especially those affected by the scarcity and higher cost of raw materials. H-acid and gamma acid have been in strong demand and makers report a sold-up condition. Benzidine and beta-naphthol are moving well. Aniline oil is in steady demand with supplies limited to a certain extent. Toluidines are stronger and in growing demand. Coal-tar crudes continue scarce. Production is improving in benzene, but there is still an acute shortage on toluene and solvent naphtha. Demand for phenol has dropped off somewhat and offerings in some directions are easier. No cresylic acid appears to be on the market except imported, which is necessarily high owing to the new tariff rates. Domestic production has been contracted for well in advance.

#### Coal Tar Crudes

**Benzene**—Production is stated to be improving and deliveries are being made more promptly as compared to a few weeks ago. Delays in shipment are still a troublesome factor. Maker's quotations are unchanged at 27c @32c per gallon for 90 per cent and 30c@35c for C.P. according to quantity.

**Cresylic Acid**—The only material available in the market is the imported. 97-99 per cent is being quoted at \$1.25 per gallon, which is 25c@30c below the value as calculated for imported material. 40 drums of cresylic acid were among the imports of last week. Domest-

tic production is said to be sold far ahead and none can be obtained for immediate delivery.

**Naphthalene**—Buying has been quiet on spot. Contracts for delivery over the coming year have been placed in good volume, however, on the basis of 6c@6½c for flake and 7c@7½c for balls. Crushed named at 5c@5½c/lb. Crude naphthalene quoted at 2½c@3c/lb. 1,446 bags of naphthalene were noted in the imports for the week.

**Phenol**—Interest has fallen off somewhat and offerings of domestic material in the open market are heard at 32c/lb for small lots. Generally quoted from 33c@36c/lb. Imported U. S. P. is held at 35c@40c/lb in 330lb drums.

**Toluene**—Supplies are extremely scarce and sole producer is unable to make delivery except at some future date. Production has been slow owing to demands for benzol. First hands continue to quote 30c@35c per gallon according to quantity.

#### Intermediates

**Acid, Anthranilic**—Technical is quiet and only in routine demand at \$1.10@\$1.15/lb. Refined named at \$1.30@\$1.35.

**Acid, Benzoic**—U.S.P. is firm at recent advances. Quoted by makers at 72c@77c/lb. Technical scarce at 60c@65c.

**Acid, Gamma**—Makers enjoyed good business during the past few months and the outlook for the future is encouraging. Contract business is reported good. Quoted at \$1.75@\$1.85 according to quantity.

**Acid, H**—Makers are quoting 75c@85c/lb according to quantity. Buying was active during the fall and makers are looking for a busy season next year.

**Acid, Naphthionic**—Improvement in demand noted with technical quoted at 60c@62c/lb. Refined named at 65c/lb.

**Acid, Salicylic**—Makers continue to quote technical at 37c@38c/lb and U.S.P. at 40c@41c/lb. Offerings in the resale market at 35c@37c/lb. Demand along steady lines.

**Acid, Sulfanilic**—Market has been quiet with quotations at 17c@20c/lb as to seller and quantity.

**Alpha-naphthylamine**—Continues to improve in demand. Makers are quoting 28c@29c/lb as to quantity.

**Aniline Oil**—Supplies are not plentiful and demand has been steady. Considerable contract business has been placed for delivery over the next few months. In 10 drum lots or less the range in price is 16½c@17c/lb. Tanks at 16c/lb at works.

**Benzidine**—In steady demand with makers naming 85c@87c/lb for base.

**Beta-naphthol**—Makers are expecting a resumption of business after the temporary lull of the holidays. Technical is being quoted at 24c@25c/lb as to quantity. Sublimed at 55c@60c/lb.

**Dimethylaniline**—Makers continue to quote 40c@41c/lb as to quantity in drums. Market is strong with the position of methanol.

**Diphenylamine**—Quoted at 52c@54clb on routine demand.

**Para-aminophenol**—Quiet at this season of the year. Held at \$1.15@\$1.25lb as to quantity and seller. Hydrochloride at \$1.20@\$1.25.

**Para-nitraniline**—In steady demand with makers quoting 73c@75clb.

**Para-toluidine**—Firm at \$1.00@\$1.15 as to seller and quantity.

### Dyestuff Notes

John H. Heald & Co., Inc., Lynchburg, Va., has filed notice of an increase in capital from \$450,000 to \$1,500,000. The company makes dye extracts.

The strike of the aniline and soda works at Ludwigs-hafen, Germany, has been settled. Under the terms of the agreement all the workmen are reinstated with the exception of the strike leaders.

John M. Weiss and Charles R. Downs, formerly of the Barrett Co., have organized as Weiss & Downs, consulting chemists and chemical engineers, with offices at the Chemists' Building, 50 East 41st st., New York.

Official returns from the textile trades in Germany show that 51,614 union workers are idle in Berlin alone. Government construction work which has been started to alleviate unemployment is hampered by, lack of finances.

Reports from the Prussian Chamber of Commerce in Berlin state that the German dye trade with America is suffering as a result of the new tariff and as a consequence of the steady influx of reparation dyes on the American market.

The following companies have been dissolved and are struck off the register according to notice given in the "London Gazette": British Resorcin Manufacturing Co., Ltd.; Burton Chemical and Fodder Co., Ltd.; Dental Practitioner, Ltd.; Glassware & Chemicals, Ltd.; Herbert's (chemists), Ltd.; Pharmaceuticals, Ltd.

John Campbell & Co., New York, announce that they are now manufacturing Amalthion (sulfur) Green 4 GY and state that it is equal in shade, strength and working properties when compared with Pyrogene Green 3G, Thional Green and others. It is fast to light, fulling, stands cross dyeing suitable for printing and recommended for raw stock, skein and piece dyeing.

In the aniline dye market in China indigo is the strong feature and has recovered somewhat in price. German indigo is selling at Shanghai at tael 53 per picul (133½ pounds) while the best quality American indigo sells at 50 taels. French interests are not in the market at present and it is reliably reported that France is to sell aniline products through Germany with a later division of territory.

The Althouse Chemical Co., Reading, Pa., has appointed the L. B. Fortner Co. its sole selling agents for New England. Although primarily intended to fill the needs of the Neversink Dyeing Co., Reading, Pa., of which C. Scott Althouse and N. S. Althouse are, respectively, president and treasurer, production of dyes had been along such broad lines that dyes are now placed upon the market, but not before they have been tested through actual use by the parent company.

### WILL LIST NON-COMPETITIVE DYES

The appointment of an advisory committee composed of six members, selected from importers, manufacturers and importers who are also manufacturers of dyestuffs, to co-operate with the appraisers in their work of classifying dyestuffs and administering the dye sections of the tariff law, was the result of the conference held last Wednesday at the Appraisers' Stores in New York. Representatives of the textile industry were also present at this meeting and two members were appointed to convene with the new committee at future meetings to lend assistance from the consumers' point of view. The members of the committee are:

Dr. E. H. Kilheffer, Newport Chemical Works, and H. F. Wilmot, of the Synthetic Organic Chemical Manufacturers' Association, representing the manufacturers of dyestuffs; Paul Pickhardt, of Kuttroff, Pickhardt & Co., and Dr. Patz, of the Franklin Importing & Exporting Co., representing the importers; Col. H. A. Metz, of H. A. Metz & Co., Inc., and Alfred F. Lichtenstein, of the Cincinnati Chemical Works, Inc., and the Ciba Co., Inc., representing the importers who are also manufacturers.

W. D. Livermore of the American Woolen Co. and G. A. Moran of the Pacific Mills represented the textile interests.

At a meeting last Friday of the dye committee and Government officials at the Appraisers' Stores, it was decided to draw up a tentative list of colors using the Schultz index as a basis and after a consideration of these lists by the various members of the committee, to meet at the Appraisers' Stores on Jan. 15, when they will decide which of the colors is non-competitive. Their findings will then be submitted to the appraisers for their information in making up the official list.

### USE OF DYES IN COLORING PAPER

Research work in the dyeing of paper formerly took into account only the behavior of the fibre to the dye whereas now attention is being given to the behavior of the filling substances, of which many papers contain considerable quantities, with regard to coal-tar dyes. In a recent lecture on this subject before the Association of Swedish Cellulose and Paper Engineers, Dr. Emil Heuser of the Darmstadt Engineering College referred to some interesting investigations carried out by himself and his assistants. Fundamental investigations showed that of the commoner filling substances, such as china clay, kaolin, clay, talcum, asbestine and blanc fixe, the acid silicates will absorb most readily basic and substantive dyes, while acid dyes are absorbed by them in much smaller amounts.

The best absorptive power is stated to be asbestine, while neutral barium sulfate is the most refractory of all filling substances. Moreover, acid dyes used in connection with silicates and blanc fixe can be washed out, whereas acid silicates treated with basic and substantive dyes are quite fast, the best results being obtained with dyes of higher molecular weight and complicated constitution. Chemical reactions produced by mixing the pulp first in the dyestuff solution, then with a solution of sodium silicate, and finally with filling substances such as aluminum sulfate, calcium chloride and magnesium sulfate, resulted in a rich and fast color and a high filling substance output.

C. P. Hugo Schoellkopf, dye manufacturer of Buffalo, was in New York last week, to assist his wife in recovering \$200,000 worth of jewelry taken from her in an apartment at 64 W. 52nd st., New York.



## The Oil Market

Current Spot Quotations of Oils, Tallows, Greases, page 111

### RED OIL AND STEARIC ACID HIGHER

**Chinawood Oil Strong on Reports of Delayed Production in the Orient—Supplies Scarce on Spot—Crude Soya Bean Oil Higher—Peanut Oil in Small Supply**

#### PRICE CHANGES IN NEW YORK (Stocks in First Hands)

Advanced		Declined	
Chinawood Oil, 1c lb.	Palm Oil, 1/2c@1c lb.	Linseed Oil, 3c gal.	
Coconut Oil, 1/4c lb.	Rapeseed Oil, 2c gal.		
Cod Oil, 1c gal.	Red Oil, 1/2c lb.		
Corn Oil, 1/2c lb.	Soya Bean Oil, crude, 1/4c lb.		
Cottonseed Oil, 1/2c lb.	Stearic Acid, 1/2c lb.		
Grease, 1c lb.	Stearine, oleo, 1/2c lb.		
Lard Oil, 1/2c lb.	Tallow, 1c lb.		
Neatsfoot Oil, 20°, 1/2c lb.	Tallow Oil, acidless, 1/2c lb.		
Olive Oil Foot, 1/4c lb.	Walnut Oil, crude, 1/4c lb.		
Trend of the Market			
	Today	Last Week	Last Month
Cod Oil, N. F.....gal.	\$ .61	\$ .61	\$ .60
Degras, American, bbl..lb.	.04 1/2	.04 1/2	.04 1/2
Lard, No. 1.....gal.	.94	.88	.88
Menhaden, crd. bbls...gal.	.50	.48	.46
Neatsfoot, 20 deg. c.t.gal.	1.39	1.35	1.35
Red Oil, distilled.....lb.	.11	.10 1/2	.10
Stearic Acid, T.P.....lb.	.13 1/2	.13	.12 1/2
Coconut, Ceylon			
Dom., bbls.....lb.	.09	.08 1/2	.08 1/2
Cottonseed, crude, tanks lb.	.09 1/2	.09 1/2	.08 1/2
Linseed, carlots.....gal.	.87	.90	.87
Olive, denatured.....gal.	1.15	1.15	1.15
Peanut, refined.....lb.	.15 1/2	.15 1/2	.12 1/2
Soya Bean, bbls.....lb.	.12 1/4	.12 1/2	.12 1/2
Average .....	0.477	0.471	0.467

Considerable strength was manifested in all oils during the past week owing to the scarcity of supplies and an increased demand from consumers. Soap makers, especially, have been very active since the first of the year. Advances in the prices of tallow, greases and cottonseed oil resulted in increases in many vegetable oils and fatty acids. Red oil and stearic acid have been advanced. Chinawood oil continues strong on reports of small and delayed production in the Orient. Practically all available supplies have been bought up in the local market and very little oil is expected in before April or May. Linseed oil eased off somewhat but is expected to regain the lost ground soon due to the advances in flaxseed which took place during the week. Crude soya bean oil is quite scarce and higher. Peanut oil is also in small supply. Corn oil is strong due to the recent gain in cottonseed oil. Fish oils are scarce and holders are asking higher prices. Turpentine continued its advance of the previous week, as stocks are not abundant and slow in coming into the primary markets. Rosin is slightly easier.

#### Vegetable Oils

**Castor Oil**—The market has undergone very little change with business along routine lines. Producers continue to quote No. 1 at 12 1/2c@12 3/4c. No. 3 named at 11 3/4c@12c.

**Chinawood Oil**—All available supplies are said to be brought up and in firm hands and owing to the scarcity of material prices are expected to remain high. Not much oil is expected before April or May. Spot oil is quoted higher at 15c in barrels. Tanks at 14 1/4c@

14 1/2c. March-April shipment named at 14 1/4c@14 1/2c in tanks.

**Coconut Oil**—Market continues firm owing to the strength in vegetable oils. Ceylon in tanks New York quoted at 8c@8 1/4c. In barrels at 9c@9 1/4c. Cochin in tanks New York 9c@9 1/4c. In barrels at 10c@10 1/2c. Manila in tanks at coast 8c. Edible 10 3/4c@11c.

**Corn Oil**—Supplies are not plentiful and prices are higher. Crude in tanks at mills named at 9 3/4c@10c. New York in barrels 10 3/4c@11c. Refined in barrels New York named at 10 3/4c@11c.

**Cottonseed Oil**—Prices advanced during the week for prime summer yellow due to the increases in crude oil in the South. Spot oil opened the week at 10.70c. Jan. 10.60@10.85. Feb. 10.70@10.95. Mar. 10.90@11.00. April 10.90@11.20. May 11.15@11.17. June 11.15@11.25. July 11.23@11.31. Aug. 11.35@11.45. Crude at mills 9 1/2c@10c.

**Linseed Oil**—The market was unsettled and prices for spot oil were easier, falling off to 87c per gallon in carlots. A recovery is expected, however, due to the recent advances in flaxseed. January delivery also named at 87c. February 86c and March 85c. London linseed oil lower at 38s. January Duluth seed opened at \$2.74. February \$2.72, May \$2.52, July \$2.49. Winnipeg May \$2.15, July \$2.13. Buenos Aires quiet at \$1.65.

**Olive Oil**—The market remains unchanged with denatured quoted at \$1.15@1.17 per gallon. Edible is held at \$1.80@2.20 according to quality. Foots New York quoted at 9 1/4c@9 1/2c. Shipment at 8 1/2c@8 3/4c.

**Peanut Oil**—Refined is held at 15 1/2c@16c on scarcity of supplies. Crude in buyers' tanks at mills higher at 12 3/4c@13c. In barrels New York 14 1/4c@14 1/2c.

**Perilla Oil**—None to be had on spot and shipments are named at 13 1/2c@14c.

**Rapeseed Oil**—Refined is higher at 85c@86c. Blown steady at 95c@98c.

**Soya Bean Oil**—Supplies continue limited and prices are higher. Crude in barrels New York at 11 1/4c@11 1/2c. Refined at 12 3/4c.

#### Animal Oils

**Grease**—Choice white advanced to 10 1/4c. Yellow, 8 1/2c. Brown, 8c. House, 8c. Bone naphtha, 7 1/2c.

**Lard Oil**—Producers are quoting higher prices on increased demand and shortage of supplies. Edible prime quoted at 16c@17c. Off prime, 14c. Extra in barrels at 13 1/2c. Extra No. 1, 13c. No. 1, 12 1/2c. No. 2, 11 1/4c.

**Neatsfoot Oil**—Quoted higher at 18 1/2c for 20 degree cold test. Prime named 13c.

**Red Oil**—Makers have advanced prices on higher costs of raw materials. Distilled and saponified quoted at 11c.

**Stearic Acid**—Increased costs of production reason given for advance in prices for all grades. Single pressed held at 11 1/2c. Double pressed at 12c@12 1/2c. Triple pressed 13 1/2c@14c.

**Tallow**—Last sales made at 9c for city extra and edible at 10 1/4c@10 1/2c.



**Fish Oils**

**Cod Oil**—Holders are naming 60c@61c for New-foundland in barrels New York. Tanks at 59c@61c gallon.

**Menhaden Oil**—Stocks are scarce in primary markets and sellers are asking higher prices. Sales have been reported at 52c in barrels and tanks at 50c.

**Salmon Oil**—Limited supplies on coast are being quoted at 45c gallon.

**Sperm Oil**—Market is quiet with 38 degree cold test held at \$1.05 gallon. 45 degree test named at \$1.02.

**Naval Stores**

**Turpentine**—Advances during the week brought the price up to \$1.54. Stocks are reported not to be large and supplies are coming in slowly. Savannah is steady at \$1.47.

**Rosin**—The market was fairly quiet during the week and prices fell off slightly. B, \$6.15. D to I, \$6.25; K, \$6.30. M, \$6.75. N, \$7.10. WG, \$7.50. WW, \$8.00.

**CELEBRATING SALES OF \$15,000,000**

The Paraffine Companies, Inc., started in California in 1880 to market a residue from oil, and which has since grown into a huge concern, held its thirty-ninth annual convention at San Francisco the last week of the year. Representatives of the firm from all parts of the world gathered for the meeting. In 1884 this company, then known as the Paraffine Paint Co., had one small plant with an investment of \$60,000 and an annual volume of sales of about \$55,000.

Today the organization, whose main office is at 34 First street, San Francisco, has a capitalization of \$12,000,000; a chain of fifteen plants, extending from San Diego to Seattle; an annual payroll of \$3,000,000 for more than 2,000 persons, and a volume of sales exceeding \$15,000,000. Seven of the companies' plants are located in the Greater San Francisco field.

R. S. Shainwald, vice-president and general manager of the company, presided at the meetings and made the opening address. Other speakers were treasurer, S. C. Irving; secretary, R. H. Ohea; D. H. Patterson, W. H. Lowe, B. J. Williams and George Petrie.

**LIGHT TRADING IN PALM OIL**

(Special Correspondence to DRUG & CHEMICAL MARKETS)

Marseilles, France, Jan. 1.—The palm oil and glycerin market is quiet. Quotations per 100 kilos are:

	France
Palm Oil, Lagos .....	36
Palm Oil, Congo a.....	170
Palm Oil, Congo, refined .....	215
Palm Oil, Grand Bassam .....	180
Glycerin, from lye 40% .....	105
Glycerin, from lye 80% .....	320
Glycerin, saponification .....	360
Olein, distillation .....	280
Olein, bleached .....	290
Olein, saponification .....	285
Stearin, saponification .....	390

New regulations covering the records and returns to be kept by oleomargarine manufacturers and wholesale dealers were issued Dec. 29 by the Internal Revenue Bureau. Further oleomargarine regulations governing trade practices such as the use of the word butter in the name of a firm dealing in oleomargarine are to be promulgated shortly.

**Oil Trade Notes**

Maximilian Toch has written a book on "How to Paint Permanent Pictures." It is published by D. Van Nostrand.

William H. Daggits Sons, soap manufacturers, 383 West 12th st., New York, filed schedules in bankruptcy last week. Assets are listed as \$12,826 and liabilities as \$14,112.

The Oil Trades Association of New York, Inc., held its dinner and meeting Tuesday evening at the Waldorf Astoria. Lee Parsons Davis, former district attorney of Westchester County, was the speaker.

Charles Renwick, president and manager of the Decora Manufacturing Co., Richmond, Cal., has returned from a trip of two months to Eastern business centers where he established agencies for the paint spraying outfit manufactured by his company.

A petition in bankruptcy has been filed against the Vulcan Paint Co., 3911 2nd ave., New York. Among the creditors are the American Smelting & Refining Co., \$335, and A. Jungman, \$55. Wilkie Bushby has been appointed receiver in \$3,000 bond.

The National Rendering Co., Kansas City, Mo., is planning a new plant at West Plains, to be devoted to the production of soaps and greases. Tankage and fertilizer will be obtained from the plant of the West Plains Serum Co. W. R. Ross is head.

W. H. E. Judd, of the Vacuum Oil Co. of Melbourne, Australia, was a recent visitor at San Francisco on a three months' tour of the United States studying business methods here. This is his first trip to the United States. Accompanying Mr. Judd on his trip is Reinhold Wilhelm, chief chemist of the company, who is making a study of oil refineries.

Eight mills of the American Cotton Oil Co. will be closed, according to Lyman N. Hine, president of the company. Some of the mills already had been shut down and others will be closed as soon as possible. Six mills in Georgia and two in South Carolina will be abandoned. The divisional headquarters in Atlanta will be transferred to Memphis, Tenn.

L. W. Wolcott has been appointed vice-president and manager of the Sherwin-Williams Co. of California, and D. A. Aronson has been made district manager of the Northern Pacific district according to an announcement by H. D. Whittlesey, vice-president and managing director of sales for the Sherwin-Williams Co. F. W. Wansner has been appointed manager of the Southern Pacific District.

Reports to the Bureau of the Census show a decrease in the manufacture of varnishes, japans and lacquers during the year 1921 as compared with 1919. The total value of products reported for 1921 amounted to \$71,239,000, compared with \$83,632,000 for 1919, a decrease of 14.8 per cent. Of the 222 establishments reported for 1921, 43 were located in New York; 35 in Illinois; 30 in New Jersey; 28 in Ohio; 17 in Pennsylvania; 12 in Missouri; 11 in Massachusetts; 8 each in Indiana and Michigan; 6 in California; 5 in Kentucky; 4 in Connecticut; 3 each in Maryland and Minnesota; 2 each in Maine, Oregon, Rhode Island and Virginia; and 1 in Wisconsin.

## The Crude Drug Market

Current Spot Quotations of Crude Drugs, Page 113

### BUYING LIGHT IN BOTANICAL DRUGS

**Prices Steady, However, and Point Upward—Spectacular Rise in Spanish Aniseed—Arabic Sorts Higher—Buchu Firmer—Peru Balsam Higher—Saffron at \$35—Powdered Cantharides Cut—Poppy Seed Easier**

#### PRICE CHANGES IN NEW YORK (Stocks in First Hands)

Advanced	
Aniseed, Span., 6c lb.	Linden Flrs., With Lvs., 3c lb.
Arabic Gum, Sorts, 3c lb.	Peru Balsam, 15c lb.
Cannabis, U.S.P., 50c lb.	Saffron, Span., \$1 lb.
Chamomile Flowers, Rom., 5c lb.	Ergot, 2c lb.
Dragon's Blood Reeds, 50c lb.	Celery Seed, 1/4c lb.
Oregon Fir Balsam, 15c gal.	Cinchona Quills, 5c lb.
Gambier Gum, 1/2c lb.	Buchu Leaves, 5c lb.
Declined	
Aloes, Soc. Pd., 5c lb.	Cumin Seed, 3c lb.
Benzoin, Siam, 25c lb.	Kola Nuts, 1/2c lb.
Calabar Beans, 1c lb.	Poppy Seed, Dutch, 3/4c lb.
Cantharides, Russ Pd., 50c lb.	Dill Seed, 1/2c lb.
	Cloves, 1c lb.

#### Trend of the Market

	Today	Last Week	Last Month	Last Year	War Peak	Pre-War
Aconite Root, U.S.P.	\$40	\$40	\$40	\$22	\$90	\$12
Buchu Leaves, Short	1.15	1.10	1.05	1.08	4.00	.85
Cantharides, Russian	2.00	2.00	2.40	2.50	9.00	2.10
Cocculus Indicus	.03 1/4	.03 1/4	.03 1/4	.06 1/4	.85	.09
Ergot, Spanish	.62	.60	.60	1.03	4.50	.54
Insect Powder, pure	.70	.70	.65	.42	1.00	.28
Ipecac, Cartagena, pwd.	1.70	1.70	1.70	1.60	4.50	1.35
Nux Vomica	.07	.07	.07	.10	1.45	.07
Opium, gum	6.75	6.75	6.75	5.30	30.00	5.00
Rhubarb Root, H. D.	.45	.45	.45	.50	1.75	.15
Tragacanth, No. 1, ribbon	1.80	1.80	1.80	2.50	6.00	1.50
Wild Cherry Bk., thin nat.	.09	.09	.09	.09	.21	.07
Average	1.35	1.35	1.36	1.36	5.28	1.00

Although a fair accumulation of out of town business was reported early this week, activity in crude drugs has continued more or less retarded in a general way since the holidays. The fact remains, however, that a large amount of routine business remains to be done during the next three months, so that the present slowness is probably indicative that inventories are still in progress. There is no pressure on holders to sell. More prices tend to go up than to decline. Stocks as a whole are somewhat smaller than average with some scarcities still prominent. Spanish aniseed has risen sharply. Oregon balsam is about cleaned out on spot. Peru is also higher. Saffron is up. Ergot tends to become firmer. Roman chamomiles are higher again. Dragon's blood reeds are nominal. Powdered Russian cantharides, poppy seed, kola nuts and calabar beans are easier.

**Agar Agar**—No. 1 continues extremely scarce at \$1.60 lb. spot.

**Aloes**—Powdered Socotrine aloes easier at 35c lb. spot. Curacao cases spot firmer 6 1/2c.

**Aniseed**—Spanish anise has risen sensationally to 25c@27c lb. spot bags on reported buying from one quarter. Sales were made during the week at 20c, 23c and 25c, with some holders asking 27c. Star firmer 15c.

**Arabic Gum**—Amber sorts in lighter supply and higher at 19c lb. spot. Holders bullish. Powdered 21c@23c U.S.P.

**Benzoin Gum**—New offers of Siam benzoin made on spot at \$1.00 lb. Sumatra benzoin quiet at 38c@40c lb.

**Buchu Leaves**—Movement to higher prices has brought out a \$1.15 price this week for bale lots. Less bales \$1.17@1.20. Demand steady.

**Calabar Beans**—New imports cheaper on spot at 13c lb.

**Cannabis**—U.S.P. spot American cannabis has jumped up to \$2.00 lb. inside. Unassayed at 90c@1.25. True imported \$5.75.

**Cantharides**—Russian powder cut sharply to \$2.25 lb. spot. Whole cases unchanged \$2.00. Chinese whole scarce at \$1.10 spot. Some sellers have withdrawn. Powder \$1.30.

**Caraway Seed**—Still strong and well maintained at 30c lb. spot.

**Celery Seed**—Firmer on spot at 23 1/2c lb bags. Goods afloat or Jan. shipment at 23c.

**Chamomile Flowers**—Roman higher at \$1.30 lb. inside spot with little available at any price. Hungarian softer and tending to sag at 19c lb. spot cases, good quality.

**Cloves**—Prices weakening on spot under pressure of new imports. Zanzibars bales 23c@24c lb.

**Cinchona Quills**—Prices have been moved up to 50c lb. inside for spot long quills. Broken in bales spot 12c@14c lb.

**Cubeb Berries**—Have quieted down. Prices unchanged at 82 1/2c lb. U.S.P. spot bags. Powdered 85c.

**Cumin Seed**—Lots offered on spot now at 32c lb. Afloat cheaper at 27c if and when released. In bond if released 29c.

**Dragon's Blood Reeds**—Nothing but small odd lots at \$2.50 lb. available on spot. To arrive in about ten days, \$1.65@1.75 lb. offered.

**Fennel Seed**—Small lot of German at 28c lb. if and when released. French strong 17c spot.

**Fir Balsam, Oregon**—Practically nothing to be had except from one seller who is asking higher prices, \$1.65 gal. in bbls., \$1.85 gal. in cans.

**Gambier**—Continues scarce and is climbing steadily. Now 10 1/2c lb. spot inside.

**Henbane Leaves**—Small lots only offered on spot at 40c up to 45c lb. as to seller.

**Henna Leaves**—Better stocks at 21c lb. for whole leaf in bales and 23c for powder.

**Insect Powder**—With flowers at any price from 57c up to 60c c.i.f. for shipment and nothing on spot, powder is in a very strong position. Spot pure in bbls. is 70c lb and strong thereat. Predictions for 75c. Powder stocks on spot are limited and in the hands of a few holders.

**Kola Nuts**—Cheaper here at 4 1/2c lb. spot. New imports at lower prices.

**Lavender Flowers**—Easier on better importations. Good grade spot at 35c lb.

**Linden Flowers**—No further stocks of linden with leaves at 22c, prices having been moved to 25c lb. inside on spot. Flowers without leaves at 45c unchanged.

**Lycopodium**—Stocks large, but demand good. Prices steady at 50c lb. in single packets 88 lbs.

**Manna**—Good quality new crop small flake manna now being offered at 35c lb. spot. Large flake quiet 58c.

**Mandrake Root**—Scarce and hard to locate. Prices strong at 17c@18c. Podophyllin again advanced sharply.

**Peru Balsam**—In small supply on spot. Prices higher at \$2.25 lb. with demand active.

**Poppy Seed**—New crop Dutch continues to arrive in larger quantities. Prices on spot easier at 14¼c lb. Jan.-Feb. shipment named at 14¼c p.i.f.

**Rhubarb**—Has become very quiet with prices unchanged and steady at 45c for whole in cases and 50c lb for powdered in bbls.

**Saffron**—Spanish saffron again higher on spot at \$35.00@\$36.00 lb. for one pound tins. Practically nothing of any quantity on this market.

**Sarsaparilla Root**—Mexican continues weak under pressure to sell. Spot bales 22c lb. unchanged this week with demand quiet.

**Senega Root**—Steady and unchanged with demand routine and prices well supported at 75c lb. for spot goods.

**Soap Bark**—Some sellers of whole have withdrawn from the market. Named 6½c@7c lb. Cut 7½c, crushed 8½c lb.

**Valerian Root**—Higher prices noted in some quarters for new imports. In a limited way, 13c@14c lb. is quoted.

# CRUDE DRUGS FIRM AT MARSEILLES

(Special Correspondence to DRUG & CHEMICAL MARKETS)

Marseilles, France, Jan. 1.—The crude drug market is firm. Quotations per 100 kilos are:

Francs	Francs
Agar agar .....3600	Cumin, Bombay 575
Aloes ..... 225	Fennel ..... 210@220
Benzoin ..... 350	Gambier ..... 220
Asafetida ..... 800@850	Henna ..... 400
Camphor, re-	Foenugreek .....180
fined .....3000	Nutgalls ..... 300
Cardamom .....725@750	Mustard, Bombay 175
Cochineal .....1000	Mustard, Italy .. 170
Cumin, Maroc .. 700	Sabadilla ..... M
	Sarsaparilla ....2000

Colonel O. G. Forrer, assistant director of the Prohibition Bureau's narcotic division, is en route to Europe with credentials from the State Department to officials of similar bureaus in Italy, Spain, France and Germany, with a view to obtaining their co-operation in preventing the illicit shipment of narcotics to the United States.

Requests for increase in the duty on agar agar and biological stains have been refused by the Tariff Commission. The Commission says it has no jurisdiction over products not made in this country, like agar agar, and that most biological stains are coal-tar products, and paragraphs 27 and 28 provide that the duty shall not be raised.

The Philadelphia Wholesale Drug Co. now occupies the entire building at 645 N. Broad st., Philadelphia. The National Aniline & Chemical Co. used the basement of the Broad st. building until recently, their removal leaving the whole structure to the Philadelphia Wholesale.

# SAYS NEW YORK IS WORLD'S DRUG CENTER

"New York has become the world's great drug center. This city no longer follows, but, rather, leads in direct dealings with primary sources," the Drug and Chemical Section of the New York Board of Trade and Transportation was told in its annual meeting last week by S. B. Penick, chairman of the Committee on Imports of Drugs and Chemicals. Mr. Penick said the improvement in ocean transportation to this city, from all important ports of the world, is aiding materially in building up the interests of the drug and chemical importers. He added that the old-time reliable merchant is recovering to some degree the position that was lost through the war, and the unprincipled foreign shipper is being eliminated.

Mr. Penick's committee reported further that import costs continued to be so low that it was very doubtful whether the duty of 25 per cent ad valorem placed on belladonna, hyoscyamus, digitalis and stramonium would be of benefit to domestic growers.

A steady increase in the essential oil industry during the year was reported by F. E. Watermeyer of Fritzsche Brothers, Inc., chairman of the Committee on Essential Oils. This was due, he explained, to the fact that goods were freely offered from sources of production throughout the world at favorable prices. Imports were on a larger scale because prices in many instances were reduced to former normal levels which stimulated buying throughout the United States.

The annual election resulted as follows: Chairman, Edward Plaut of Lehn & Fink; vice chairman, Charles L. Huisking of Charles L. Huisking, Inc.; treasurer, William A. Hamann of Roessler & Hasslacher Chemical Co.; secretary, William F. McConnell; executive committee, Clement C. Speiden of Innis, Speiden & Co., Theodore W. Day of C. S. Littell & Co., Edward Zink of Eli Lilly & Co., Carroll Dunham Smith of Carroll Dunham Smith Pharmacal Co. and A. Bakst of Bakst Brothers; to represent the Drug and Chemical Section as a Director in the New York Board of Trade and Transportation, Frank C. Starr of Sharp & Dohme.

# DROP IN SPANISH ERGOT PRICES

In 1921, the average price at which ergot of rye sold in the Vigo District in Spain was slightly over one dollar per pound, according to Consul H. T. Wilcox. It is now being sold for 38c per pound abroad. This drop in price is said to have been caused by the receipt in the United States of increasing quantities of German and Polish ergot. The records of the Vigo consulate show that 14 metric tons of ergot, valued at \$31,000, were invoiced to the United States in 1921, while during the first 10 months of 1922 Vigo sent to the United States 26 metric tons, worth \$59,000.

The reports indicate that the total yield for 1922 is not more than 45 metric tons—slightly less than the quantity produced in 1921 and only half the 1920 crop. The success or failure of the harvest depends each year upon the weather, too little or too much rain being harmful to the development of the fungus. This year the acreage of rye was comparatively small, and a small crop of ergot was therefore expected; but in regions which as a rule produce no ergot unusual and favorable rains caused an unexpected additional crop. Besides this year's crop there are old stocks on hand for export which amount to 8 or 10 metric tons. These stocks are being held by speculators, who appear to be waiting for better prices.



## The Essential Oil Market

Current Spot Quotations of Essential Oils, page 117; Aromatic Chemicals, page 118

### DISTILLERS CUT OIL CLOVE PRICES

**Down to \$1.50 for January on Cheaper Spice—Eucalyptus Firmer on Bullish Cables—Cheaper Offers at Birch Tar—Citronella Higher for Shipment—Camphor Oil Easier—Menthol Softens**

#### PRICE CHANGES IN NEW YORK (Stocks in First Hands)

Advanced		Declined	
Oil Eucalyptus, 2½c lb.	Oil Mustard, Artif., 25c lb.	Oil Birch Tar, 40c lb.	Oil Orange, Calif., 5c lb.
Oil Geranium, Bourbon, 50c lb.	Oil Spearmint, 10c lb.	Oil Camphor, Wht., ¼c lb.	Oil Sassafras, Natl., 5c lb.
	Oil Wormseed, 25c lb.	Oil Cloves, 30c lb.	Menthol, 25c lb.
		Oil Erigeron, 5c lb.	Methyl Salicyl., Resale, 2c lb.

#### Trend of the Market

	Today	Last Week	Last Month	Last Year	War Peak	Pre-War
Oil Bergamot	\$3.00	\$3.00	\$3.10	\$5.00	\$7.00	\$5.00
Oil Citronella, Ceylon	.57	.57	.50	.42	.92	.60
Oil Cloves	1.70	2.00	2.25	2.25	3.70	1.40
Oil Lemon	.65	.65	.70	.65	1.70	2.00
Oil Peppermint, Nat.	3.00	3.00	2.60	1.70	9.00	2.25
Oil Sandalwood, E. I.	7.00	7.00	6.75	7.25	13.00	5.25
Oil Sassafras, Artif.	.42	.42	.42	.50	1.00	.26
Benzaldehyde, U.S.P.	1.40	1.40	1.40	1.25	5.15	1.50
Coumarin	4.00	4.00	4.00	3.75	31.00	3.10
Methyl Salicylate, Cans.	.57	.57	.52	.40	1.00	.30
Vanillin	.45	.45	.45	.55	.95	.29
Average	2.07	2.08	2.05	2.18	6.83	2.05

In most essential oil quarters, demand has shown a material increase during the past week. Immediately following the Christmas-New Year holiday period, buying lagged for several days, but by the close of last week had begun to pick up considerably. The early part of the present week saw orders numerous and running into fairly large quantities. Citronella has not been quite as active as far as demand is concerned, although prices are strong, well maintained and higher for shipment. Clove oil prices for January delivery have been cut sharply by distillers. Eucalyptus tends to strengthen on bullish cables from Australia. Spearmint is firmer. Wormseed is stronger. Sassafras is easier. Bourbon geranium is still scarce. Erigeron is easier. Oil birch tar is down. Mustard artificial is scarce.

#### Essential Oils

**Oil Almond**—Some low sellers, \$3.75 for bitter U. S. P. have moved up prices to \$4.00 lb inside. Demand quiet.

**Oil Anise**—Spot technical strong and unchanged at 50c lb. cases. U.S.P. in good demand at 55c lb. cans.

**Oil Bergamot**—Continues weak and in small demand. Inside spot standard brands at \$3.00, coppers. Others \$3.10@3.25.

**Oil Birch Tar**—New lots offered cheaper on spot at 60c lb. for crude and \$1.10 for rectified. Spot supplies larger.

**Oil Camphor**—Spot goods available more freely on recent imports. White Japanese oil in drums slightly cheaper at 14½c. Cans 15c. Sassafrassy oil 11½c unchanged.

**Oil Caraway**—Still very scarce and firm at \$6.25 lb. U.S.P. goods.

**Oil Cassia**—U.S.P. prices holding well at \$2.15@ \$2.20 lb. spot cans. In a big way in the trade, \$2.10 can be done. Demand steady.

**Oil Citronella**—Although actual spot buying by consumers has slowed down during the week past, prices maintain their strong position. Spot Ceylon oil is held at 58c lb. drums while quotations for shipment are higher at 59c c.i.f. Several importers claim the shortage stories from primary markets are untrue and an excuse to boost prices. On the other hand, a number of spot shorts are reported still uncovered.

**Oil Cloves**—Owing to the much cheaper supplies available and the large spice stocks which have recently accumulated, oil distillers cut prices again sharply this week to \$1.50 lb. for January delivery in cans. Demand is slow but actual stocks of spot oil are small and hard to locate. Small lots on spot Monday sold at \$210 lb. in cans.

**Oil Erigeron**—Soft and receiving little attention. Price on spot slightly lower at 95c lb.

**Oil Eucalyptus**—Bullish reports by cable from Australia tend to stiffen the spot New York market. Some holders have moved up prices to 42½c lb. inside for drums while cans-cases command about 42½c@45c. Good seasonable demand here. Current crop in Australia reported likely to be short, owing to low prices ruling for a year or so past.

**Oil Fennel**—At present price of seed, oil costs about \$1.85 to produce. Spot still offered \$1.25 lb.

**Oil Geranium**—Bourbon very scarce. Little good grade under \$7.50 lb. spot. Demand good.

**Oil Lemon**—Continues weak and in limited demand on spot. Heavy imports and continuous forcing of goods into consuming channels at sacrifice price holds values down. Spot as to brand, in coppers, named at 65c, 68c, 70c and 80c lb. Sicily holds heavy stocks which must be sold.

**Oil Mustard**—Artificial mustard is very scarce and deliveries are behind. Some sellers asking higher prices for small spot lots, \$3.25 lb. appearing inside.

**Oil Orange**—Undertone of market still soft with reports of sales in the trade at low prices. Sellers quote Sicilian spot at \$2.40, West Indian at \$2.20 with demand slow. American producers announce cut in California orange oil to basis of \$2.65@2.70 lb.

**Oil Peppermint**—Country sellers appear to be somewhat more anxious to sell, although prices on spot are no lower. Definite crop figures for 1922 are still lacking, although production was not up to 1921 figures. It is believed, however, that plenty of oil is available in the country, but from strong holders. Spot natural \$3.00; U.S.P. \$3.25 lb. Exports for 1922 were lowest for past fifty years.

**Oil Sandalwood**—Strong and in good request. Spot U.S.P. \$7.00 lb. in case lots.

**Oil Sassafras**—Cheaper lots of natural oil on spot at 85c lb. Artificial unchanged 42c.

**Oil Spearmint**—Generally firmer and holders demanding higher prices at \$2.50 lb. spot.

**Oil Wormseed**—Cheap lots reported quite nearly cleaned up. Most holders naming \$4.25 lb. for spot goods. Less heard of \$4.00 sellers.



**Aromatic Chemicals**

**Coumarin**—Quiet with demand steady at \$4.00 lb. from American producers.

**Menthol**—With demand much slower and stocks larger, high menthol prices tend to weaken as holders try to force sales. Named \$9.75 lb. spot cases, \$10.00 less. Shipment last week heard \$8.00 c.i.f.

**Methyl Salicylate**—Manufacturers quote basis 57c for fifty pound cases and 55c for drums. Resale goods available cheaper on spot at 50c in cans.

**Terpineol**—Moving steadily at unchanged prices. American in large drums at 50c@55c lb. Imported in small cans at 70c@75c lb.

**Vanillin**—Steady demand at unchanged prices. Producers name 43c@45c oz. with no resale material available under these prices.

**Essential Oil Notes**

Total income from West Indian orange oil crops in 1921, according to the figures of the Jamaica Agricultural Department, amounted to £40,000.

Reports from England indicate that a number of well-known foreign synthetic aromatic chemical producers are considering establishing factories in America owing to the rates of the Fordney-McCumber Tariff.

A fisherman of Cape May, N. J., while walking on the Delaware Bay shore about six miles north of Cape May Point, found what is supposed to be a lump of ambergris. If it is ambergris the piece is worth more than \$1,000.

V. Vivaudou, Inc., has entered into a contract with the Mineralava Co. by which the Vivaudou company agrees to become exclusive sales agent of the Mineralava company for 21 years. The Mineralava Co. is to spend a minimum of \$1,000,000 annually on advertising.

Francois Coty of Paris, manufacturer of fine perfumery, recently incorporated in Delaware for \$11,000,000, has leased three floors and basement of the twelve-story building at 423 West 55th st., New York. The building was taken for a long term of years at an aggregate rental of about \$1,000,000.

Magnus, Maybee & Reynard have placed J. P. McCarthy in charge of the Boston office. He will cover Maine, New Hampshire, Vermont, Massachusetts and Rhode Island. Robert B. Magnus, formerly purchasing agent, will travel from the New York office through a portion of the New England states. Fred Hornecker will be in charge of the Philadelphia and Baltimore sales districts. Fred Rauch and P. W. Hanson will represent the company in the South and Southwest.

**ADVANCES IN SYNTHETIC PRODUCTS**

(Special Correspondence to DRUG & CHEMICAL MARKETS)

Milan, Italy, Jan. 1.—The demand for synthetic products is still active. Prices are as follows, per kilo: Amile acetate, lire 60; benzyle acetate, free from chloride, lire 38; benzaldehyde, free from cyanides and chlorine, advanced from lire 32 to lire 40; pure citral, lire 160; citronella, advanced from lire 60 to lire 120; coumarin, 100 per cent, lire 160; heliothropine, 100 per cent, lire 130; eucalyptol, rose from lire 50 to lire 55.

**LEMON OIL LOWER IN ITALY**

(Special Correspondence to DRUG & CHEMICAL MARKETS)

Milan, Italy, Jan. 1.—Lemon oil has declined owing to the poor demand from abroad. The opinion here is that there are no large stocks on foreign markets, although buyers are not ordering supplies in any quantity. The fruit is late and is still on the trees. Producers, needing money for their purchases of lemons, and other expenses, are compelled to contract the essence that they will produce, and they are strangled by the speculators, who try every means to break the market.

Sweet orange oil also has declined. The price has dropped from lire 27.50 to lire 22. The quantity of old production goods on the market is very small, but it is foreseen that the production of new oil will be very large.

Bergamot oil is quoted at lire 38 to 39. Little business has been done in last season's oil, but sales are recorded of best quality new production oil at the price quoted.

**FRENCH ESSENTIAL OIL PRICES FIRM**

(Special Correspondence to DRUG & CHEMICAL MARKETS)

Marseilles, France, Jan. 1.—The essential oil market continues firm, but business is very quiet. Quotations per kilo are:

	Francs
Aniseed, Tonka .....	15
Rosewood .....	63@ 65
Citronella, Java .....	22
Citronella, Ceylon .....	15
Geranium, Bourbon .....	175@180
Clove .....	46
Palmarosa .....	135
Patchouli .....	200@240
Petit Grain .....	49
Ginger Grass .....	59
Vervain .....	23@ 24
Vetivert, Bourbon .....	120@125
Ylang Ylang, Bourbon, 1st quality .....	120@125
Ylang, Ylang, Bourbon, 2nd quality .....	60@ 65
Linaloe Mexique.....	60

**VANILLA PRICES SLOWLY ADVANCING**

(Special Correspondence to DRUG & CHEMICAL MARKETS)

Vera Cruz, Mexico, Jan. 1.—Weather conditions continue favorable for the vanilla crop for this season. The cool nights and rains help to ripen the green beans, and the quality of vanilla for this season will be very good. The beans will average about eight and one-half inches in length. "Cuts" are estimated at 35,000 pounds for the season, and are of good quality.

The average price paid by vanilla merchants at the present time is \$6.50 to \$7.00 American currency per pound for the cured beans, future deliveries. Prices are slowly advancing. When the new crop is put on the market there may be a slight decline in prices, but before the season is over, the market price in this vanilla district will be high, if not higher than last season.

W. J. Bush & Co. announce a reduction in prices for California orange oil to a basis of \$2.65 per pound for large quantities and \$2.70 for smaller lots, effective immediately for prompt shipment goods.

The United Barber Shops of America, recently incorporated in Delaware at \$1,000,000, has appointed S. J. Florentine, 63 Wall st., as its New York agent.

## The Consuming Industries

### Trade Tips for Sellers

The Interlocking Cord Tire Co., Akron, O., is increasing its working force to speed up production.

The National Paper Products Co., Church st., Stockton, Cal., is erecting a mill addition to cost \$125,000, including machinery.

The American Window Glass Co., Jeannette, Pa., is erecting a one-story addition to its local plant, to be occupied early in the spring.

The side leather plant operated by the Armour Leather Co., Chicago, is running on a capacity basis. This schedule will be continued indefinitely.

The Charlotte Knitting Mill, Charlotte, N. C., manufacturing silk hosiery, will make additions and improvements which will double the capacity of its plant.

Boger & Crawford, Philadelphia mercerizers, bleachers and dyers, recently installed 300 additional winding spindles at their plant. The factory is at J and Venango sts.

Receivers for the Perfection Tire & Rubber Co., Fort Madison, O., are reorganizing the company and expect to have the plant in operation at an early date.

The Dixie Wax Paper Co., Dallas, Tex., is producing approximately five tons of material per day at its new plant at 3008 Williams st. William H. Bryce is treasurer.

A new silk hosiery mill is under construction at Chattanooga, Tenn. R. M. Watkins, prominent local business man, is at the head of a group interested in the project.

Sand Springs, Okla., will have a new \$900,000 cotton mill, which will employ about 700 operatives. Ground has been broken and construction will be completed by summer. R. H. Kagi is in charge of operations.

The Altoona Textile Co., Altoona, Pa., recently capitalized at \$100,000, will be producing broad silks in its new mill by spring. August Hafner, formerly with the Schwarzenbach Huber Co., is treasurer and manager of the Altoona company.

The Continental Dyeing & Finishing Co., Inc., recently capitalized at \$15,000, has started operations at West New York, N. J. Silk piece goods will be dyed and finished. Jean Thomas is president and Harry Ruvo is secretary and treasurer.

A new dye house is being erected at the Felters Co.'s plant at Millbury, Mass. Approximately \$150,000 is being spent for this and other improvements, including a finishing room addition. The company recently increased its capital from \$1,000,000 to \$2,000,000.

Four cities just north of San Francisco are attempting to provide a site for a new mill, to cost about \$8,000,000, which will be constructed in the spring. E. W. Tarr, Gross Valley, Cal., is looking over plots at Marysville, Oroville, Grass Valley and Sacramento. The concern is underwritten by a trust company.

The Paper Industries Exposition will be held at the Grand Central Palace during the week of April 9 by the International Exposition Co., of which Charles F. Roth and Fred W. Payne are managers. During the

same week the American Paper & Pulp Association and the National Paper Trade Association will be in session in New York.

A two-day short course in canning chemistry and bacteriology designed strictly for commercial canners will be offered at the University of California, Berkeley, early in the new year. The course will consist of lectures and laboratory practice on the analysis and examination of lye, sugar and various materials used in canneries. The course has received the endorsement of the Canners' League of California and a large attendance is expected.

### New Consuming Companies

Wine Flavor Extracts, New York, \$10,000. To make flavoring extracts. S. Cassia, S. Russo; attorney, J. G. Giambalvo, 44 Court st., Brooklyn.

Illinois Products Co., Chicago, \$2,500. To make perfumes and toilet preparations. Louis Lowy, Earl Juul, F. P. Lyons; rep., G. A. Kyriakopoulos, 417 Ashland block.

Asure Mfg. Co., Boston, Mass., \$10,000. To make soaps and cleansing agents. F. H. Relyea, T. J. Cahill, A. L. Hunter, Harry Pearl.

Sanitary Devices Corp., Boston, Mass., \$100,000. To make disinfectants and vermin exterminators. A. P. Baker, Allston, C. L. Rogers, Wollaston, William Ireland, Roxbury; attorneys, Noyes, Wellman and Gillmore, Boston.

Royal Import Co., 101 Albany st., New Brunswick, N. J., \$50,000. Cosmetics and toilet articles. Morris and Mrs. Josephine Winfield, Highland Park, N. J., William F. Keates, Bound Brook, N. J.

Danya, New York, \$5,000. To make cosmetics. B. W. Black, C. A. Votteler, W. Berry; attorneys, White & Case, 14 Wall st.

The Dominion Silk Dyeing and Finishing Co., Ltd., incorporated in 1921, has built a plant at Drummondville, Que., and is installing machinery. Charles L. Auger, Sr., president of the concern, expects to start operations within two weeks.

National Glass Co., Inc., Bridgeport, Conn., \$50,000. To make glass products. Harry Schwartz, M. L. Stone, 18 Highland ave.

Bell Creek By-Products Co., Montgomery, W. Va., \$50,000. To make petroleum by-products. F. E. Smart, J. E. Wilkerson, G. C. Humphreys.

Kylold Co., Grand Haven, Mich., \$100,000. To make composition products. C. R. R. and Lionel Heap, Grand Haven.

Conewago Felt & Paper Co., York Haven, Pa., \$300,000. To make paper and felt. E. E. Brunner, York Haven.

Tennessee Rubber Co., Murfreesboro, Tenn., \$25,000. To make rubber products. W. S. Winn, A. D. McKnight, J. M. Butler, Murfreesboro.

Wahl La France, Dover, Del., \$10,000. To make toilet articles. Samuel Waldman, Wm. Waldman, Braddock, Pa., J. H. Gordon, Pittsburgh, Pa.; Capital Trust Co. of Del.

The Public Drug Co., Cleveland, \$10,000. J. A. Klein, A. G. Levine, E. C. Landsman, Dave Friedman.

Colonial Drug Co., Springfield, Mo., \$10,000. C. S. Leslie, N. H. Antrim, W. H. Yancey.

Intercity Knitting Mills, Brooklyn, \$100,000. To make knitted fabrics.

Crescent Tanning Co., Boston, 1,000 shares stock, no par value. To make leather products. B. J. Kaplan, 209 Highland ave., Winchester, Mass.

W. H. Gage Glue Co., St. Louis, Mo., \$75,000. W. H., C. A., and L. F. Gage, St. Louis.

Midway City Glass Corp., Huntington, W. Va., \$50,000. To make glass products. B. W. Walton, R. T. Morris, Huntington Daniel Howard, New Cumberland, W. Va.

Lasco Shellac Co., Bush & Severn sts., Baltimore, \$100,000. To make shellac, varnishes, and paints. L. A. Stabler, H. P. Branner, E. C. Frank.

Wisconsin Coca-Cola Bottling Co., Dover, \$310,000. To bottle beverages. United States Corp., Dover.

Raisinade Corp., Newark, \$250,000. To bottle beverages. G. P. Eisenchimi, Margaret M. Baney, Mildred W. Weil, Newark.

O'Keefe's Beverages, Ltd., Buffalo, \$100,000. To make beverages of all kinds. C. Pond, Buffalo; Corporation Trust Co., 37 Wall st., New York.

Awoco Worsted Mills, Inc., New York, \$100,000. To make textiles. A. Greenberger, 842 Hewitt Pl., New York; Corporation Trust Co., 37 Wall st.

Moava Products Corp., Rochester, N. Y., \$650,000. To do a general drug and chemical business. E. W. Hinman, Rochester; Corporation Trust Co., 37 Wall st., New York.

## The Foreign Markets

Imports of Drugs and Chemicals, page 119

### MENTHOL & SHELLAC HIGHER IN LONDON

**Morphine and Potassium Permanganate Also Advanced**  
**—The Bromides and Hexamine Firmer—Japanese**  
**Mint Oil, Quicksilver, Strychnine and Vanillin Easier**  
**—Drug Auctions to be Resumed in About Two Weeks**

(Special Cable to DRUG & CHEMICAL MARKETS)

London, Jan. 10.—Trading in drugs and chemicals is quiet this week. Higher prices are asked for American menthol, morphine and shellac, which is up five shillings for spot and 15 shillings for forward delivery. Potassium permanganate has been advanced. The rubber market is stronger.

The bromides and hexamine are firmer.

Prices are easier for Japanese mint oil, quicksilver, strychnine and vanillin.

The next Drug Auction will be held in about two weeks.

### ACTIVITY IN CHEMICALS IN ITALY

(Special Correspondence to DRUG & CHEMICAL MARKETS)

Milan, Italy, Jan. 1.—Some activity is noted in the demand for heavy chemicals. The fluctuations of the lire influence many consumers to place their orders with home producers. Present quotations per 100 kilos are:

	Lire
Hydrochloric acid 20 degree Baume .....	30 to 33
Nitric acid 36 degree .....	155 to 165
Nitric acid 40 degree .....	175 to 180
Sulfuric acid 66 degree .....	45 to 48
Sulfuric acid 50 degree .....	19 to 21
Chloride of lime (bleach) .....	90 to 100
Caustic soda .....	210 to 225
Soda ash .....	75 to 85
Ammonium sulfate .....	195 to 200
Sodium nitrate .....	128 to 130
Copper sulfate 98 per cent .....	237 to 240

Marseilles, France, Dec. 23.—The market for industrial chemicals is firm. Quotations per 100 kilos are:

Francs	Francs
Hydrochloric acid 20 degree .....	115
Caustic soda .....	107
Nitric acid 30 degree .....	105
Nitric acid 40 degree .....	115
Sulfuric acid 60 degree .....	19
Sulfuric acid 50 degree .....	17
Chloride of lime, bleach .....	67
Calcium chloride .....	49
Potassium Chlorate .....	305
Ammonium sulfate .....	107
Sodium silicate .....	33
Magnesium chloride .....	13
Potassium chloride .....	65
Sodium nitrate .....	78
Magnesium sulfate .....	39
Copper sulfate 98% .....	135
Iron sulfate 95 per cent .....	17
Potassium nitrate .....	140

Sixty per cent of the Brazilian import duties are now payable in gold and 40 per cent in paper, according to a cablegram received today from Commercial Attache William L. Schurz at Rio de Janeiro. This change in the method of payment of duties results in a decided increase in the duties on all commodities imported into Brazil. The new ratio replaces that of 55 per cent gold to 45 per cent paper, which has been in effect, except for a few months, since Jan. 1, 1917.

### FOREIGN EXCHANGE

	Par	Current
Great Britain (pound sterling).....	\$4.886	\$4.678
France (franc) .....	.193	.070
Italy (lira) .....	.193	.050
Germany (mark) per hundred.....	23.80	.011
Czechoslovakia (crown) per hundred.....	20.30	2.930
Poland (mark) per hundred.....	23.80	.005
Japan (yen) .....	.499	.488
Spain (peseta) .....	.193	.157
Holland (guilder) .....	.402	.395
Belgium (franc) .....	.198	.065
Norway (crown) .....	.268	.188
Switzerland (franc) .....	.193	.189
Sweden (crown) .....	.268	.268
Denmark (crown) .....	.268	.204
Argentina (peso) .....	.424	.376
Brazil (milreis) .....	.279	.114
China (Silver dollar—Hongkong) .....	.789	.536
(Tael—Shanghai, silver) .....	1.082	.721
(Tael—Peking, silver) .....	1.156	.760

### Foreign Trade Opportunities

The Department of Commerce, Washington, D. C., has received the following inquiries for drugs, chemicals and accessories. Reserved addresses may be obtained from the Bureau and its district and cooperative offices. Request for each opportunity should be on a separate sheet and state opportunity number. The Bureau does not furnish credit ratings or assume responsibility as to the standing of foreign inquirers; the usual precautions should be taken in all cases.

4779—Sodium sulfate, silicate of soda, caustic soda, chloride of lime, aluminum sulfate, Glauber salts, rosin, mineral acids, and sulfur—Finland. Purchase and agency desired.

4812—Naval stores—France. Agency desired. Quotations, c.i.f. French port. Terms: Cash against documents, or credit in New York.

4814—Nitrogenous fertilizers, arsenic, and sulfur—England. Purchase or agency desired. Quotations, c.i.f. English ports.

4832—Sulfur, 5,000 tons yearly—Spain. Agency desired.

4838—Chemicals and pharmaceutical products—Switzerland. Purchase desired. Quotations, c.i.f. Antwerp or Hamburg.

4847—Bichromate of soda and caustic soda 76-78—Belgium. Purchase desired. Quotations, c.i.f. Belgian port.

4854—Molybdenite, wolframite, and ferro-alloys—England. Purchase desired. Quotations, c.i.f. English port. Terms: Cash.

4870—Chemical fertilizers—Italy. Representation of manufacturers desired.

4878—Dyes and intermediates—Italy. Agency desired.

4882—Beta-naphthol, acid schaeffer, bichromate of soda, paratoluidine, acid H., induline, and benzidine, for the manufacture of dyes—Italy. Purchase desired. Quotations, c.i.f. Italian port. Terms: Cash against documents. Correspondence, French or Italian.

4891—Sulfate of copper, 99 per cent in crystals—Greece. Purchase of 50 tons desired. Quotations, c.i.f. Patras or Piraeus. Terms: 25 per cent on confirmation of order and 75 per cent against documents.

4892—Rosin in 200 to 500 barrel lots and turpentine in 50 to 100 barrel lots—Scotland. Purchase and agency desired. Quotations, c.i.f. Scottish port. Terms: Cash against documents.

4893—Rosin in quantity of 50 to 100 tons in each order—Germany. Purchase desired. Quotations, c.i.f. Bremen. Terms: Cash against documents.

4894—Bichromate of soda, bichromate of potash, acetone, fuller's earth, and paraffin wax—Belgium. Purchase and agency desired. Quotations, c.i.f. Antwerp. Terms: Cash against documents.

4902—Naval stores, senegar root, lime, and vegetable seeds—Sweden. Agency desired. Quotations, c.i.f. Swedish port. Terms: Payment against documents.

4918—Methylene in solid form for use as a denaturant for alcohol—Argentina. Purchase desired. Quotations, c.i.f. Argentine port.

4924—Chemicals, drugs, and pharmaceutical specialties—Sweden. Agency desired. Quotations, c.i.f. Swedish port.

A commercial treaty lasting one year has been signed by Italy and France. It provides low tariff rates, and French products are now quoted lower to Italian consumers.



# Prices Current of Fine and Heavy Chemicals, Drugs, Essential Oils, Dyestuffs and Oils

**CLASSIFICATION**—Prices quoted herein are listed in the following groups: **Chemicals**, including heavy and technical chemicals, fine and medicinal chemicals, aromatic chemicals and isolates, crudes and intermediates from coal-tar, various fine alkaloids, and miscellaneous products; **Crude Drugs**, **Essential Oils**, including oleoresins; **Fatty Oils**, including Animal, Vegetable and Fish Oils, Greases, Fats, and Tallow; **Tanning and Dye Extracts**, including miscellaneous natural tanning woods, extracts, etc. All groups are arranged in straight alphabetical order.

**Packages**—Prices are for large quantities in original packages of the customary trading units of weight or measure. A container given in connection with a price does not necessarily mean that this is the quantity on which the price is based. Containers named are the original packages most commonly sold in this market.

**QUOTATIONS**—Chemical prices quoted herein are those of American manufacturers unless otherwise specified. Quotations on imported chemicals are so designated. Where resale or "second hand" stock of any chemical product are sufficient to be considered a factor in determining the market, prices for goods in this class will be quoted in addition to makers' prices available, and indicated as such. Chemical prices quoted

herein are for goods spot New York or Metropolitan District, f. o. b. or ex-store, for immediate shipment, unless otherwise specified. Numerous domestic-made heavy or industrial chemical products are sold principally on a basis of f. o. b. works, and are thus quoted in the list herein, each instance of a "works" price, however, being specified as such.

Fatty Oils prices quoted herein are for goods spot New York unless otherwise noted; f. o. b. mills and Coast prices being designated as such. Crude Drugs and Essential Oils are quoted f. o. b. New York (Manhattan with limitations) for immediate shipment. Tanning and Dye Extracts are quoted spot New York unless otherwise noted.

**WEIGHTS AND MEASURES**—All quotations are made on a basis of avoirdupois pounds and ounces, and American gallons. The following equivalents are given for the reference of exporters, importers, and foreign buyers:

1 Imperial Gallon (British)	—1.20 American Gallons
1 American Gallon	— .833 Imperial Gallon
1 American Gallon	—3.79 Liters
1 Liter	— .264 American Gallon
1 American Gallon (Water)	—8.35 Pounds
1 Pound (Avoirdupois)	— .454 Kilograms
1 Kilogram	—2.20 Pounds

Style and Arrangement Copyright by DRUG & CHEMICAL MARKETS, 1922

## Chemicals

ACETANILID, tech. 150 lb bbls. . . . .	.27	.28
100 lb kgs. . . . .	.28	.30
USP 200 lb bbls. . . . .	.35	.38
Second Hands . . . . .	.34	.35
Acetic Anhydride, 85% 480 lb drs. . . . .	.36	
85%, 107 lb chys. . . . .	.37	
90% chys. . . . .	.38 1/2	
Acetone, CP 700 lb drs. c/l wks. . . . .	.21	
700 lb drs. l/l wks. . . . .	.21 1/4	
350 lb drs. l/l wks. . . . .	.21 1/4	
Second Hands, spot. . . . .	.21	
Acetone Oils, light, bbls. . . . .	.85	.88
Heavy, bbls. . . . .	.90	.93
Acetophenone, CP 1 lb bot. . . . .	4.00	4.25
Acetophenetidin, 150 lb bbls. . . . .	1.85	1.95
Acetyl Chloride, 100 lb chys. . . . .	.35	.36
ACID, 1, 2, 4, 250 lb bbls. . . . .	.80	
Acetic, 28%, 400 lb bbls. c/l wks. . . . .	3.17 1/4	
28%, l/l wks. . . . .	3.42 1/4	
56%, c/l wks. . . . .	6.35	
56%, l/l wks. . . . .	6.60	
70%, bbls, c/l wks. . . . .	7.94	
70%, l/l wks. . . . .	8.19	
80% coml. bbls. c/l wks. . . . .	9.08	
30% coml. l/l wks. . . . .	9.33	
80% pure bbls. c/l wks. . . . .	10.30	
80% pure l/l wks. . . . .	10.55	
Glacial, bbls. c/l wks. . . . .	12.05	
Glacial, l/l wks. . . . .	12.30	
Glacial, USP chys wks. . . . .	12.80	
Acetylsalicylic, 200 lb bbls. . . . .	1.00	
Second Hands . . . . .	.90	.95
Anthranelle, ton lots drs. . . . .	1.10	
95-98%, 100 lb drs. . . . .	1.15	
99-100%, 100 lb drs. . . . .	1.30	
Benzole, tech. 100 lb bbls. . . . .	.65	
Tech. ton lots bbls. . . . .	.60	
USP, 100 lb bbls. . . . .	.72	.77
Boric, crys. powd. 250 lb bbls. . . . .	11 1/2	12
Kegs, 100 lb . . . . .	.12	12 1/2
Broenner's, 250 lb bbls. . . . .	1.55	
Butyric, 60% pure 5 lb bot. . . . .	.50	.60
Camphoric, USP VIII 1 lb bot. . . . .	5.50	5.60
Carbolic, USP crys. see also Phenol		
110 lb tins . . . . .	.37	
25 lb tins . . . . .	.39	
5 lb tins or bot. . . . .	.41	.42
1 lb bot. . . . .	.46	
Liquid, USP 1 lb bot. . . . .	.45	


ACID, Carbolic—(Continued)		
Crude, 25% 50 gal bbls. . . . .	.27	.30
10%, 50 gal bbls. . . . .	.22	.23
Chloroacetic, . . . . .		
mono 100 lb bbls. wks. . . . .	.30	
DI, 150 lb chys wks. . . . .	.37	1.00
Tri, 425 lb bbls. wks. . . . .	.245	
Chlorosulfonic, 1500 lb drs. . . . .		
wks. . . . .	.16	.16
Chromic, USP 200 lb drums. . . . .	.40	
85% Pure, 200 lb drums. . . . .	.35	
Chrysophanic, see Chrysarobin . . . . .		
Cinnamic, 5 lb cans. . . . .	2.75	3.00
CITRIC, USP crys 250 lb bbls. . . . .	.50	
Powd., USP 200 lb bbls. . . . .	.51	
Imported, crys. 112 lb kgs. . . . .	.48	
Single kegs . . . . .	48 1/4	.49
Cleves, 250 lb bbls. . . . .	1.50	1.54
Cresylic, 95% dark dr. resale. gal . . . . .		
97-99% straw, drs. wks. . . . .		
97-99% straw, drs. Imp. gal . . . . .	1.25	
97-99% decolor. drs. wks. . . . .		
Diethylbarbituric, 10 lb lots, . . . . .		
1 lb bot. . . . .	8.50	10.50
Formic, 75% tech. 100 lb chys. . . . .	.16	.18
Gallic, 75% chys. incl. . . . .	.16	.18
Gallic, USP 150 lb bbls. . . . .	.70	.75
Gamma, 225 lb bbls. wks. . . . .	1.85	
Bbls., ton lots wks. . . . .	1.75	
Glycerophosphoric, 25% 1 lb b. . . . .	1.65	1.70
H, 350 lb bbls. single. . . . .	.80	
Bbls. ton lots wks. . . . .	.75	
Hydroiodic, 10% USP 5 lb bot. . . . .	.65	.70
Hydrobromic, 48% coml. 155 lb chys. wks. . . . .	.35	.40
48% coml. 10 chys. wks. . . . .	.40	
40% USP 155 lb chys. wks. . . . .	.45	.46
10% USP 100 lb chys. wks. . . . .	.11	.13
Hydrochloric, see also Acid Muriatic		
CP, USP, 110 lb chys. . . . .	.07	.08
HYDROFLUORIC, 30% 400 lb bbls. . . . .		
wks. . . . .	.06	
30% bbls. c/l wks. . . . .	.06	
30% 100 lb chys. wks. . . . .	.07	
48% single 100 lb chys. wks. . . . .	.11	
48% 10 chys. wks. . . . .	.10	
52% 100 lb chys. wks. . . . .	.12	
52% 10 chys. wks. . . . .	.11	

Acid, hydrofluoric—(continued)		
60% 100 lb chys. wks. . . . .	.14	
60% 300 lb dr., wks. . . . .	.13	
White Acid, 100 lb chys. wks. . . . .	.36	
White Acid, 10 chys. wks. . . . .	.25	
Hydrofluosilicic, 35% 450 lb bbls. . . . .	.10	.13
wks. . . . .		
Hypophosphorous, USP 30% 5 gal. demis. . . . .	.95	
USP, 10% 5 gal. demis. . . . .	.35	
LACTIC, 22% dark 500 lb bbls. . . . .	.04 1/2	.05
22% light, bbls. . . . .	.05 1/2	.06
44% dark, bbls. . . . .	.09 1/2	.10
44% light, bbls. . . . .	.10 1/2	.12
66% bbls. . . . .	.16	
80% imported, bbls. . . . .	.14 1/2	.15
USP IX 100 lb chys. . . . .	.60	.70
USP VIII 100 lb chys. . . . .	.55	
Laurent's, 250 lb bbls. . . . .	.75	.80
Metanilic, 250 lb bbls. . . . .	1.00	
Mixed, sulfuric-nitric		
Drums, wks. . . . .	N Unit	.07 1/2
Drums, wks. . . . .	8 Unit	.01
Tank cars, wks. . . . .	N Unit	.07 1/2
Tank cars wks. . . . .	8 Unit	.009
Molybdic, 85% pure 1 lb bot. . . . .	1.75	1.85
85% pure, 100 lb kegs. . . . .		1.30
Monosulfonic F, Delta. 50 lb tins . . . . .		2.30
MURIATIC, 20% chys. l/l wks. . . . .	1.20	1.65
Chys. c/l wks. . . . .	1.10	1.50
Tank cars, wks. . . . .	1.00	1.10
15%, 140 lb chys. . . . .		
c/l wks. . . . .	1.00	1.10
Tank cars, wks. . . . .	.90	1.00
22%, 140 lb chys. . . . .		
c/l wks. . . . .	1.75	2.00
Iron, free, 20% chys. . . . .		
c/l wks. . . . .	1.35	
Tank cars, wks. . . . .	net ton 20.00	25.00
Muriatic, CP & USP, see Acid Hydrochloric		
Naphthalenic, tech. 250 lb bbls. . . . .	.60	.62
Refined, single bbls. . . . .		.65
Neville & Winter's, 250 lb bbls. . . . .	1.15	1.20



<p><b>FLOUR</b> 100% Pure Fine Uniform</p> <p><b>ROLL</b> Brimstone</p>	<p><i>Cooper Products</i></p> <p><b>SULPHUR</b></p> <p><i>Well known since 1857</i></p>	<p><b>FLOWERS</b> 100% Pure (Resublimed) Light</p> <p><b>REFINED</b> Lumps</p>
<p>MANUFACTURERS <i>Since 1857</i></p>	<p><b>CHAS. COOPER &amp; CO.</b> 194 Worth Street, New York</p>	<p>WORKS <i>Newark N. J.</i></p>

There can be no higher degree of purity than that which is presented to you under the label of



**STRYCHNINE  
ALKALOID**


**AND ITS SALTS**

*N. Y. Q. Samples and Prices sent on request.*

**The New York Quinine &  
Chemical Works, Inc.**

152-154 William St., New York

Saint Louis Depot: 18 South Broadway



**PRIMING  
ETHER**

For Starting  
Gasoline and Kerosene Engines in  
**COLD WEATHER**

WRITE FOR LITERATURE

---

**Powers-Weightman-Rosengarten Co.**  
Manufacturing Chemists

New York      PHILADELPHIA      St. Louis

**PHOSPHORIC ACID—All Grades**

**TRI-BASIC-CALCIUM PHOSPHATE—Pure and Technical**

**BAKING POWDER CHEMICALS**

---

**WILCKES-MARTIN-WILCKES Co.**

135 WILLIAM STREET      NEW YORK CITY

## Chemicals

<b>ACID, NITRIC, 36° 135D</b>			<b>Acid Sulfuric</b>			<b>Alcohol—(continued)</b>		
Chy. wks. ....100D	5.50	6.00	Tank cars, wks. ....net ton	9.00	11.00	Butyl, 50 gal. drums. ....D	.20	.22
Chys. c/l wks. ....100D	4.50	5.00	C. P. 175D chys. ....100D	...	8.00	Cinnamic, liquid, 1D bot. ....D	15.00	16.00
38° single chys. wks. ....100D	5.50	5.75	Oleum, 20 p.c. 1500D drums,			Crystallizable. ....D	23.00	24.00
Chys., c/l wks. ....100D	4.75	5.25	lc/l wks. ....100D	1.25	1.50	Isobutyl, crude 50 gal. drums. gal	...	4.40
42° Single chys. wks. ....100D	5.50	6.00	Drums, c/l wks. ....100D	1.10	1.25	Refined, 10D can. ....D	...	.75
Chys. c/l wks. ....100D	5.00	5.50	Tank Cars, wks. ....net ton	17.00	18.00	Isopropyl, crude 50 gal. drs. gal	...	2.25
44° Single chys. wks. ....100D	6.75	7.50	Contract cars, wks. ....ton	17.00	18.00	Refined, 50 gal. drs. ....gal	4.00	4.50
Chys. c/l wks. ....100D	6.50	7.00	Oleum, 40° drs lc/l wks. net ton	...	35.00	Ref'd, 91%, drs. ....gal	...	3.50
C. P. chys. single wks. ....100D	...	13.00	Oleum, 60° drs, lc/l wks net	...	65.00	Methyl, see Alcohol, Wood		
Oralic, 325D bbls. wks. ....D	.13 1/4	.14	4% 100D chys. ....D	.05	.06	Phenylethyl, see Phenylethylalcohol		
Bbls., NY ....D	.13 1/4	.14	USP, 5 gal. demis. ....D	.06	.08	Propyl, nml. crd 50 gal. drms. gal	...	4.40
Kegs, 100D ....D	.13 1/4	.14	Tannic, tech. 300D bbls. ....D	.40	.50	Refined, 10D can. ....D	...	.75
Imp., 560D cks. ....D	.13 1/4	.14	USP, powd. 200D bbls. ....D	.70	.75	<b>Denatured</b>		
Phenylacetic, 1D bot. ....D	2.50	3.00	USP, fluffy, 50D bbls. ....D	.75	.80	No. 1 Complete Denat. 188 Proof		
Phosphoric, 50% tech. 100D			Tartaric USP cryst 300D bbls. ....D	...	.32	50 gal. bbls. incl. ....gal	.45	.47
chys. ....D	.08	.09	USP, powd. 300D bbls. ....D	...	.32	50 gal. drums, extra. ....gal	.40	.42
USP, 85% syrupy, 70D			Imp. USP, 240D bbls. ....D	.30 1/4	.31	No. 1 Special Denat. 190 Proof		
demis. ....D	...	.16	Powd. 240D bbls. ....D	.30 1/4	.31	50 gal. bbls. incl. ....gal	.41	.43
Phthalic, see Phthalic Anhydride			Tobias, 250D bbls. ....D	1.30	1.40	50 gal. drums, extra. ....gal	.36	.38
Picramic, 300D bbls. ....D	...	.65	Tungstic, 100D kegs. ....D	...	1.00	No. 5 Complete Denat. 188 Proof		
Pieric, 300D bbls. ....D	...	.30	Aconitine Alk. cryst. 1 oz. vis. oz	...	30.00	50 gal. bbls. incl. ....gal	.40	.42
Bbls. car lots wks. ....D	...	.20	Amorphous, 1 oz. vis. ....oz	...	20.00	50 gal. drums, extra. ....gal	.35	.37
Pyrogallic, crys. 5D cans. ....D	...	1.20	Adeps Lanae, hydrous 350D bbls. ....D	.23	.24	No. 6 Complete Denat. 188 Proof		
Resublimed, 5D cans. ....D	1.55	1.60	Anhydrous, 350D bbls. ....D	.25	.26	50 gal. bbls. incl. ....gal	.39	.41
Tech. powd. 200D bbls. ....D	...	.80	Albumen, Egg, edible. ....D	...	.80	50 gal. drums, extra. ....gal	.34	.36
Salicylic, tech. 125D bbls. ....D	.37	.38	Technical, see Dyes Sundries			In addition to the regular authorized formulas for completely denatured alcohol, some 75 formulas for specially denatured alcohol are authorized for special uses. Owing to the limitations of their uses however, prices are quoted by the alcohol producers only to holders of permits allowing the use of specially denatured formulae in products authorized by the Dept. of Internal Revenue. For prices on specially denatured alcohols not listed above, consult any of the alcohol producers.		
USP, 100D bbls. ....D	...	.40	<b>ALCOHOL, USP 190 pf. 50 gal.</b>					
Second Hands ....D	.34	.37	bbls. ....D	...	4.70			
Sulfanilic, 250D bbls. ....D	.17	.20	Second Hands, bbls. USP 190					
<b>SULFURIC, 66° 175D chys.</b>			pf. ....D	...	4.60			
lc/l wks. ....100D	1.10	1.50	Export, USP 190 pf. ....gal	.37	.45			
Chys., c/l wks. ....100D	.95	1.25	Cologne Spirit, 50 gal. bbls. gal	...	4.75			
1500D Drums, lc/l			Wood, see Methanol					
wks. ....100D	...	1.10	Alcohols, also in 50 gal.					
Drums, c/l wks. ....100D	...	1.00	drums, extra and returnable.					
Tank cars, wks. ....net ton	14.00	16.00	Amyl, see Oil Fuel					
60° 1500D Drums,								
lc/l wks. ....100D	.70	.90						
Drums, c/l wks. ....100D	.60	.80						



## ZINC OXIDE

Snow Cap Brand 5% Tomahawk Brand 35%

### LITHOPONE

Manufactured by

— THE —

**Grasselli Chemical Co.**

NEW YORK CLEVELAND CHICAGO

Albany, N. Y. (Rensselaer) Riverside Ave.

**The Grasselli Chemical Co., Ltd.**

TORONTO MONTREAL



## Butanol



Pure Normal Butyl Alcohol dissolves many important raw materials.

Its boiling point, 117° C., is 17° above that of water and 39° above that of ethyl alcohol.

At 22° C. one part of Butanol is miscible with 12 parts of water.

The flash point of Butanol is 38° C., that of ethyl alcohol being approximately 11° C.

It is non-hydrous and relatively non-hygroscopic.

It does not corrode metals.

### Commercial Solvents Corporation

Eastern Sales and Export

17 E. 42nd Street

NEW YORK

General Office and Plant

TERRE HAUTE,

INDIANA

Cable address "Comsolvent" New York

London Office

10a FEATHERSTONE BLDGS.

HIGH HOLBORN, W. C. 1

Cable address "Comsolvent" London

## Chemicals

Alolin, USP 100 lb cases.....D			.84	:	.90
Alpha-Naphthol, tech 300 lb bbls.D			...	:	1.05
Ton lots, bbls. wks.....D			...	:	1.00
Refined, 300 lb bbls.....D			...	:	1.10
Alpha-Naphthylamine, 350 lb bbls.D			...	:	.29
Ton lots, bbls. wks.....D			...	:	.28
<b>ALUM, Ammonia, lump 400 lb bbls.</b>					
wks. ....100 lb			3.50	:	3.65
Imp., 500 lb casks.....100 lb			3.25	:	3.50
Ground, 400 lb bbls. wks.100 lb			3.60	:	3.75
Powd., 380 lb bbls. wks.100 lb			3.90	:	4.00
Chrome, 500 lb cks wks.100 lb			5.00	:	6.00
Potash, lump 400 lb bbls.					
wks. ....100 lb			...	:	4.50
Bbls. c/l wks.....100 lb			...	:	4.25
Cont. bbls c/l wks.....100 lb			...	:	4.25
Imp. 650 lb cases sp.100 lb			3.00	:	3.25
Ground, 400 lb bbls. wks.100 lb			4.35	:	4.60
Imp. 650 lb casks.....100 lb			3.25	:	3.50
Powd., 380 lb bbls. wks.100 lb			4.50	:	4.75
Chrome, 700 lb cks wks.100 lb			5.50	:	6.00
Soda, grd. 400 lb bbls. wks.100 lb			...	:	4.00
Bbls. c/l wks.....100 lb			...	:	3.50
Aluminum, metal, c/l NY.....100 lb			22.50	:	23.00
Chloride, anhyd. 275 lb drs.....D			.20	:	.22
30% sol. 120 lb clys.....D			.03½	:	.04
Hydrate, light 90 lb bbls. ....D			.17	:	.18
<b>SULFATE, Iron-free bags c/l</b>					
wks. ....100 lb			2.50	:	2.65
Imported, spot .....100 lb			2.50	:	2.60
Comm'L, ¾% iron, bgs. c/l					
wks. ....East 100 lb			1.45	:	1.50
<b>Aluminum Sulfate— (continued)</b>					
Cont. bgs. c/l wks. E.100 lb			...	:	1.40
Bags, c/l wks. W...100 lb			...	:	1.35
Bbls., c/l wks. East.100 lb			...	:	1.60
Bulk, c/l cont. wks. E.100 lb			...	:	1.35
Amidol, (see Diaminophenol)					
Amidopyrine, 10 lb boxes.....D			4.50	:	4.75
1 lb cartons, 10 lb.....D			...	:	5.16
Aminoozobenzene, 110 lb kgs.....D			...	:	1.15
<b>AMMONIA anhyd. 100 lb cyl. D</b>			...	:	.30
Water, 26° 800 lb drs. wks. D			...	:	.07½
Drs. c/l wks.....D			.07	:	.07½
Imp., 800 lb drs incl spot. D			...	:	.08
26°, 100 lb clys. lc/l wks. D			...	:	.08½
Clys. c/l wks.....D			...	:	.08½
20°, 800 lb drs. lc/l wks. D			...	:	.08
Clys., lc/l wks.....D			...	:	.07½
18°, 800 lb drs. lc/l wks. D			...	:	.05½
Clys., lc/l wks.....D			...	:	.07½
16°, 800 lb drs. lc/l wks. D			...	:	.04
Clys., lc/l wks.....D			...	:	.05
Ammonium Acetate, 100 lb kgs. D			.35	:	.36
Benzoate, USP 1 lb bot.....D			.85	:	.90
Bifluoride, 300 lb bbls.....D			.23	:	.23
100 lb kgs .....D			.23	:	.24
Bromide, 50 lb boxes.....D			...	:	.33
Imported, 112 lb boxes.....D			.18	:	.20
Carb., tech. 560 lb casks.....D			...	:	.09½
Powd., tech. 385 lb bbls. ....D			...	:	.10½
USP, lump, 100 lb kgs.....D			.07	:	.08
Powd., 100 lb kgs.....D			.09	:	.10
<b>Chloride, Domestic</b>					
White gran. 250 lb bbls wks D			...	:	.07½
Bbls., c/l wks.....D			...	:	.07½
Gray 250 lb bbls. wks.....D			.07½	:	.07½
Bbls. c/l wks.....D			.07½	:	.07½
<b>Ammonium Chloride—(continued)</b>					
Imp., wh. 600 lb casks spot. D			.06½	:	.07
Gray, 600 lb casks spot. D			.07½	:	.08½
Lump, 500 lb casks spot. D			...	:	.15
Ichthyolate, as to brand.....D			.75	:	4.00
Iodide, USP 25 lb jars.....D			4.85	:	4.90
Lactate, 500 lb bbls.....D			.15	:	.16
Nitrate, tech. crys. 225 lb bbls. D			...	:	...
CP gran. 100 lb kgs.....D			.20	:	.21
Oxalate, pure, 100 lb kgs.....D			.50	:	.57
Persulfate, 112 lb cases.....D			.55	:	.60
Phosphate, dibasic 200 lb bbls. D			.54	:	.60
Tech., powd. 325 lb bbls. ....D			.15	:	.17
Salicylate, USP 100 lb kgs. ....D			.63	:	.65
Sulfate, bulk c/l wks.....100 lb			...	:	3.20
200 lb single bgs c/l wks.100 lb			...	:	3.30
200 lb double bags f.a.s.100 lb			...	:	3.55
Sulfocyanide, tech. 100 lb kgs. D			.60	:	.63
CP, 25 lb jars.....D			.60	:	.65
Amyl Acetate, tech. 50 gal. drs.gal			2.50	:	2.65
Pure, 5 gal. cans.....gal			5.00	:	6.00
Alcohol, see Fusel Oil					
Butyrate, 1 lb bot.....D			2.00	:	2.10
Formate, 1 lb bot.....D			1.75	:	2.00
Salicylate, 100 lb clys.....D			1.30	:	1.50
Anethol, 2 lb bot.....D			1.60	:	2.00
<b>ANILINE OIL, 900 lb drs. 5dr.sp. D</b>			...	:	.17
Aniline Salt, 200 lb bbls.....D			.24	:	.25
Anisic Aldehyde, 1 lb bot.....D			4.00	:	4.50
<b>Anthracene, 40-45% 600 lb casks</b>					
wks. ....D			.12	:	.17
80-85%, 600 lb casks wks. ....D			.75	:	1.00
Anthraquinone, subh 125 lb bbls. D			1.30	:	1.35
30% paste 350 lb bbls.....D			.75	:	.80
Antimony metal, slabs ton lots.100 lb			...	:	6.50
Needle Powd., 100 lb cases.....D			.08	:	.06½

The Name Associated With

# "Roche"

Fine Chemicals and Alkaloids of Rare Quality



Aconitine and Salts  
Amidopyrine  
Antipyrine  
Apomorphine Hydrochloride  
Arecoline Hydrobromide  
Atropine and Salts  
Berberine and Salts  
Brucine and Salts  
Caffeine and Salts  
Cocaine and Salts  
Codeine and Salts  
Colchicine Alkaloid, U. S. P.  
Colchicine Salicylate  
Creosote, U. S. P.  
Creosote Carbonate,  
Cumarin  
Diacetylmorphine  
—Alkaloid and Hydrochloride  
Digitalin Pure  
Duboisine Sulphate  
Emetine and Salts  
Eserine and Salts  
Guaiacol Liquid

We are the headquarters for

## SANTONIN

Crystals - U.S.P. - Powder

Guaiacol Carbonate  
Homatropine and Salts  
Hydrastine and Salts  
Hydrastinine Hydrochloride  
Hyoscine Hydrobromide  
Hyoscyamine and Salts  
Morphine and Salts  
Phenolphthalein  
Pilocarpine and Salts  
Potassium Guaiacol  
Sulphonate "Alta" Brand  
Salicin  
Saponin Purified  
Scarlet Red Medicinal  
Genuine "Biebrich"  
Silver Proteinate  
Sodium Cacodylate  
Sparteine Sulphate  
Strophanthin  
Strychnine and Salts  
Theobromine and Salts  
Veratrine and Salts  
Yohimbin Hydrochloride

THE HOFFMANN-LA ROCHE CHEMICAL WORKS NEW YORK

## Chemicals

<b>ANTIMONY CHLORIDE, anhyd 1000D</b>			<b>Bay Rum, Porto Rican, genuine</b>			<b>Beta-Naphthylamine, tech. 200D.</b>		
dra. ....	D	.35	Denat. salicy acid or tartar emetic			bbls. ....	D	.95 : 1.00
50D crocks ....	D	.45 : .50	45 gal. bbls. ....	gal	3.10 : 3.25	Sublimed, 200D bbls. ....	D	1.50
Sol'n. 130D carboys ....	D	.12 : .14	Denat. guanine sulf. 45 gal.			Bichloride Mercury, see Mercury Bichloride		
Oxide, 500D bbls. ....	D	.06 1/2 : .07	bbls. ....	gal	3.40 : 3.50	BISMUTH metal, 150D cases..	D	2.65 : 2.75
Salt, dom. 500D bbls. ....	D	.24	Domestic synthetic, 50 gal.			Second Hands .....	D	2.60 : 2.70
Imp, c.i.f. NY. ....	D	.18 : .19	bbls. ....	gal	1.25 : 1.35	Ammon. Citrate, USP 5D bxs.	D	5.45
Sulphide, golden 500D bbls..	D	.19	Benzaldehyde, tech. 945D dra.			Betanaphtholate, 5D bxs....	D	3.10
336D kegs .....	D	.36	wks. ....	D	.65 : .70	Citrate, USP 5D bxs. ....	D	2.75
Crimson, 500D bbls. ....	D	.38	USP, 25D cans. ....	D	1.40 : 1.50	Nitrate, 25D jars. ....	D	1.70
336D kegs .....	D	.43	FFC, 25D cans. ....	D	1.70 : 1.80	Oxychloride, 250 bbls. ....	D	3.12
Red, 500D bbls. ....	D	.40	BENZENE, 90% 8000 gal. tanks			Phenolsulfonate, 5D cans....	D	2.90
336D kegs .....	D	.40	wks. ....	gal	.37	Salicylate, 250 bbls. ....	D	1.85
Tartracetate, 500D bbls....	D	.45	110 gal. dra. wks. ....	gal	.32	Subcarbonate, 5D boxes....	D	3.08
Antipyrine, USP, 100D cases..	D	2.30 : 2.40	CP Tanks, wks. ....	gal	.30	Subcarbonate, USP 250 bbls..	D	3.00
Apomorphine Hydrochloride, 1/4 oz. vial. ....	oz.	16.65	110 gal. dra. wks. ....	gal	.35	X-Ray diag. 1D bot. ....	D	3.35
Arecoline Hybromide, 1 oz. vial. ....	oz.	12.00	Benzidine Base, dry 250D bbls. D		.37	Subgallate, USP 175 bbls....	D	2.51
Argols, red powd. 350D bbls..	D	.07 : .07 1/2	10 bbl. lots. ....	D	.85	Subiodide, 5D lots. ....	D	4.43
Arsenic, metal 220D kegs....	D	.23 : .24	Benzidine Sulfate, paste 350D			Subnitrate, USP 250 bbls....	D	2.65
Red, 224D kegs cases. ....	D	.13 1/2 : .13 3/4	bbls. ....	D	.70 : .72	Second Hands, bbls. or less. D	D	2.45 : 2.50
White, 550D bbls. c/l NY. D	D	.15 1/2 : .16	Benzol, see Benzene			Cones, 1D bot. ....	D	3.65
Aspirin, see Acid Acetylsalicylic			Benzonaphthol, 5D boxes....	D	2.00 : 2.10	Subsalicylate, USP 175 bbls..	D	2.78
Atropine Alk. USP 1 oz vial. ....	oz	10.50	Benzoyl Chloride, 500D dra....	D	1.00	Tannate 1D bot. ....	D	2.50
Sulfate, 5 oz. in 1 oz. vials. ....	oz	4.50	Benzyl Acetate, 100D chys....	D	1.40 : 1.50	Bismuth Preparations quoted		
Single ounce .....	oz	4.60	Alcohol, 5D bot. ....	D	1.25 : 1.50	above on basis 25D lots.		
<b>BARIUM BINOXIDE, see Barium dioxide</b>			Benzonate, 5D bot. ....	D	1.90 : 2.00	Smaller lots at an advance.		
Carbonate, precip. 500D bbls.			Medicinal FFC .....	D	2.10 : 2.20	Blanc Fixe, dry 400D bbls. wks. ton	80.00 : 85.00	
wks. ....	ton	75.00 : 85.00	Chloride, 95% tech. 925D dra. D		.20 : .22	Imported, bbls. ....	ton	...
Imports, bbls. spot. ....	ton	75.00	100D chys. ....	D	.25	Paste, 650D bbls. ....	ton	40.00
Precip., 200D bbs. wks. ....	ton	70.00 : 75.00	Redistil. 100D chys. ....	D	.35	<b>BLEACHING POWDER, 700D dra.</b>		
Chloride, 800D bbls. wks. ....	ton	95.00 : 100.00	Formate, 1D bot. ....	D	2.50 : 3.00	c/l wks. ....	100D	2.15 : 2.25
200D bbs. wks. ....	ton	95.00 : 98.00	Berberine Hydrochloride, 1D bot. ....	D	22.00	Drums 1c/l ex-warehouse. 100D		2.25 : 2.40
Import, bbls. spot. ....	ton	95.00	Sulfate, acid or neut. 1D bot. D		22.00	Contract, c/l wks. ....	100D	1.90 : 2.00
Dioxide, 780D dra. ....	D	.18 : .20	BETA-NAPHTHOL, 350D bbls. wks. D		.26	F. a. s. c/l. ....	100D	...
Import, 500D dra. ....	D	.14 : .16	Ton lots, wks. ....	D	.24	Imported, spot. ....	100D	...
Hydrate, 500D bbls. ....	D	.05 : .06	Sublimed .....	D	.55 : .60	Blue Ointment, see Mercury		
Iodide, 5D bot. ....	D	5.10				Mass, see Mercury		
Nitrate, 700D casks. ....	D	.09 1/2 : .10				Bone Ash, 100D kegs. ....	D	.08
Import, casks .....	D	.08 : .08 1/2				Black, 200D bbls. ....	D	.06 : .08
Sulfocyanide 400D bbls. ....	D	.35						
Barytes, floated 350D bbls. ....	ton	33.50 : 35.00						



*Soda Ash*  
*Caustic Soda*  
*Bicarbonate of Soda*

Manufactured by  
**MICHIGAN ALKALI COMPANY**

Sole Selling Agents  
**EDWARD HILL'S SON & CO.**  
 21 EAST 40TH STREET, NEW YORK



## Chemicals

Borax, USP cryst. 400 lb bbls...D	.05% : .06	Calcium Chloride—(continued)		Carbon Tetrachloride, 1400 lb drs.	
Powdered, USP 300 lb bbls...D	.05% : .06	Flake 330 lb drs. c/l drs. fob		NY	... : .10%
Kegs, USP 100-150 lb...D	.06 : .06%	NY	... : 30.50	Drums, c/l NY	... : .09%
Bordeaux Mixture, powd. bbls...D	.13 : .16	Imp., solid 600 lb drs. spot. ton	... : 30.50	700 lb drs. single NY	... : .10%
Paste, bbls...D	.08 : .10	Anhyd., 350 lb drs. fob NY lb	.12 : .13	Carbide, No. 40 5 lb boxes...D	4.50 : 4.60
Borneol, 1 lb bot...D	... : 3.50	Glycerophosphate, 250 lb bbls...D	1.55 : 1.60	Casein, edib. 100 lb keg...D	.45 : .50
Bromide, see potash bromide, etc.		Hydrate, (see Lime)		Technical, 200 lb bbls...D	.28 : .30
Bromine, bot. in 60 lb cs. wks...D	... : .29	Iodide, 5 lb bot...D	... : 4.30	Castoreum, 1 lb boxes...D	4.00 : 4.50
Bromobenzene, 600 lb drums...D	.40 : .42	Lactate, tech. 500 lb bbls...D	... : .13%	Castor Oil, USP 50 gal. bbl...D	... : .13
Bromoform, USP 5 lb bot 50 lb cs. lb	... : 1.30	Nitrate, 220 lb bbls. c/l NY. ton	... : 40.00	Cases, 80 lb 2 drs...D	... : .14
Bromstyrol, 25 lb kegs...D	4.00 : 4.25	Phosphate, precip. 350 lb bbls...D	.10 : .12	Caustic Potash, see potash, caustic	
Brucine Sulfate, 100 ozs...D	... : .20	Phosphate, precip. tribasic 350 lb bbls...D	.12 : .13	Soda, see soda, caustic	
Butter of Antimony, see Antimony Chloride		Phosphate, mono...D	.06% : .07%	Cerium Oxalate, USP 100 lb kgs. lb	.48 : .53
CADMIUM, metal 100 lb bss...D	1.15 : 1.25	Sulfocarbonate, 100 lb kegs...D	.61 : .63	Chalk, drop 175 lb bbls...D	... : .03%
Bromide, 50 lb cases jars...D	... : 1.10	Calomel, see Mercury		Precip. light 175 lb bbls...D	.04% : .04%
Iodide, 10 lb bot...D	... : 4.30	CAMPOR, Amer. ref. 250 lb bbls...D	... : .96	Precip. heavy 500 lb csks...D	.03% : .04
Sulfide, cs...D	1.50 : 1.60	2 1/2 lb slabs, 100 lb cs...D	... : .97%	Bulk	5.00 : 8.00
CAFFEINE ALK. USP 5 lb cans...D	3.75 : 4.25	1 lb cakes, 100 lb cs...D	... : .97%	Charcoal, Bone, see bone black	
Second Hands...D	... : 3.75	1 oz. tab., 1 lb ctns...D	... : 1.01%	Wood, powd. 100 lb bbl...D	.04 : .05
Hydrochloride, 1 lb bot...D	7.12 : 7.32	100 lb cs...D	... : 1.02	Willow, powd. 100 lb bbl...D	.06 : .07
Sulfate, 1 lb bot...D	... : 5.52	1/2 oz. tab., 1 lb ctns...D	... : 1.02	China Clay, imp...ton	16.00 : 22.50
Citrate, 25 lb cans...D	3.00 : 3.25	100 lb cs...D	... : 1.02	Domestic, fob Mine...ton	15.00 : 17.50
Hydrobromide, 1 lb bot...D	... : 4.75	Jap. ref. 2 1/2 lb slabs, 100 lb cs...D	.88 : .90	Chloral Hydrate, USP 100 lb drs. lb	.75 : .80
CALCIUM Acetate, 150 lb bgs, c/l wks...100 lb	... : 3.50	1 oz. tab. 100 lb cs. 1 lb tins...D	... : 1.04	25 lb jars...D	.78 : .81
Arsenate, 100 lb bbls. c/l wks. lb	.16 : .19	1/2 oz. tab. 100 lb cs. 1 lb tins...D	... : 1.05	Chinoidin, 170 lb cases...D	.65 : .75
Bbls. lc/l wks...D	.18 : .20	Chinese ref. 2 1/2 lb slabs 100 lb cs...D	.88 : .90	Chlorhydrin, Ethylene anhyd, 600 lb drs...D	1.50 : 1.60
Bromide, 100 lb cs...D	... : .45	Crude, 100 lb cs...D	.72 : .75	40% soln. 100 lb cys...D	.30 : .35
Calcium Carbide, 220 lb dr c/l wks lb	... : .04%	Campor, Monobrom. 100 lb cs...D	1.90 : 1.95	CHLORINE, Liquid 2000 lb cyl. c/l wks...D	.05% : .05%
Drums lc/l wks...D	... : .05	Caramel, 50 gal. bbls...gal	.57% : .62	Tank car lots wks...D	.05% : .05%
Carbonate, tech. 100 lb bags c/l...100 lb	1.00 : 1.10	Carbazol, 250 lb bbls...D	.75 : .80	100 lb cyl. c/l...D	... : .06
USP, precip. 175 lb bbls...D	... : .04	Carbon Bisulfide, 500 lb dr. lc/l NY lb c/l drums, NY...D	... : .06%	100 lb cyl lc/l wks...D	.06% : .07
Chloride, solid, 650 lb drs. c/l f o b NY...ton	... : 24.50	Carbon Black, 12 1/2 lb bags, 150-225 lb cases...D	.18 : .35	Chlorobenzene, mono. 1000 lb drs. wks...D	.10 : .11
Gran., 350 lb drs. c/l f o b NY...ton	... : 30.50			Drs. c/l wks...D	... : .09
				Tank car lots wks...D	... : .08
				CHLORFORM, USP 50 lb drs...D	... : .35
				Second Hands, 650 lb drs...D	.32 : .34
				Technical, 650 lb drums...D	.33 : .35

# QUININE

## Sulphate and Minor Salts

Unexcelled in Uniformity of Quality  
Brilliant Crystallization and Purity of Color

**Cinchonine, Cinchonidine  
Quinidine**  
and their Salts

**EMETINE  
YOHIMBINE**

**CAFFEINE  
QUINIC ACID**

Manufactured by  
**N. V. Amsterdamsche Chininefabriek**  
Amsterdam  
**N. V. Bandoengsche Kininefabriek**  
Bandoeng  
**N. V. Nederlandsche Kininefabriek**  
Maarssen

Represented by  
**R. W. GREEFF & CO., Inc.**

78 FRONT ST., Cor. Old Slip, NEW YORK CITY

# Liquid Chlorine

## A SINGLE PURPOSE-SERVICE

There are those among the consumers of Liquid Chlorine who insist upon buying only from the producer whose organization and facilities are equal to any reasonable demands made of them, and once having found such a source of supply are loyal to it.

It is to that element of discerning buyers that we have always catered.

That they have not erred in their judgment, and that the E. B. G. reputation for Better Service has been sustained for 14 years is evidenced by the number and character of our customers.

Are you yet one of them?

**Electro Bleaching Gas Co.**  
Pioneer Manufacturers of Liquid Chlorine  
Plant NIAGARA FALLS, N. Y.  
Main office 18 E. 41st Street, New York  
Chicago office 11 So. La Salle St.



## Chemicals

Chromium Acetate, 20° soln. 400 lb bbls. ....	.08	: .10	COD LIVER OIL, Norwegian, 30 gal. bbls. ....	22.50	: 23.50	Cyanamide, bulk c/l wks. Amm unit ...	: 2.25	
Fluoride, Foud. 400 lb bbls. ....	...	: .50	Newfoundland, 30 gal. bbls. ....	...	: ...	DIAMINOPHENOL, 100 lb kgs. ....	: 3.75	
Soln. 400 lb bbls. ....	...	: .07	Colchicine alk., USP 1 oz. vial. ....	...	: 30.00	Dianisidine, 100 lb kgs. ....	4.50 : 4.60	
Sulfate, 400 lb bbls. ....	2.10	: 2.25	Salicylate, 1 oz. vial. ....	...	: 45.00	Dichlorobenzene, 1000 lb drs. ....	.08 : .07½	
Chrysarobin, USP 5 lb cans. ....	...	: .70	Colloidon, USP 30 lb drums. ....	.22	: .23	Diethylaniline, 850 lb drs. ....	.60 : .65	
Cinchonidin alk., pvd. 100 oz. tins. ....	...	: .75	Flexible, USP 30 lb drums. ....	.27	: .28	Diethyl Phthalate, 25 lb cans. ....	.85 : .90	
Crystal .....	48¾	: .50	COPPER, metal electrolytic c/l NY .....	...	: 14.75	Diethyl Sulfate tech. 50 gal. drs. ....	.40 : .45	
Sulfate, 100 oz. tins. ....	...	: .38	Lake, c/l NY .....	...	: 14.75	CP drums .....	.50 : .55	
Cinchonine, alk., pvd. 100 oz. tins. ....	...	: .43	Casting, c/l NY .....	14.25	: 14.50	Digitalin, Pure, 1 oz. vial. ....	7.75 : 8.25	
Crystal .....	...	: .25	Carbonate, 400 lb bbls. ....	...	: .19	Dimethylaniline, 840 lb drs. wks. ....	.40 : .41	
Sulfate, 100 oz. tins. ....	...	: .35	Cyanide, 100 lb drs. ....	.58	: .60	Dimethylsulfate, 110 lb drs. ....	...	: .50
Cinnamic Alcohol, see Alcohol Cinnamic			Oxide, 1000 lb bbls. ....	.15½	: .16	Dinitrobenzene, 400 lb bbls. ....	.19	: .20
Cinnamic Aldehyde, 1 lb bot. ....	3.75	: 4.00	Carlots, bbls. ....	.15	: .15½	Dinitrochlorobenzene, 400 lb bbls. ....	.19	: .20
Citral, 25 lb cans. ....	2.80	: 3.25	Sub-Acetate, verd. 440 lb bbls. ....	.35	: .37	Dinitronaphthalene, 350 lb bbls. ....	.30	: .33
Citric Acid, see Mercury			SULFATE, crys. 450 lb bbls. 12/1 spot .....	6.25	: 6.50	Dinitrophenol, 350 lb bbls. ....	.33	: .35
Citronellal, 1 lb bot. ....	2.00	: 2.25	Carlots, bbls, spot. ....	6.00	: 6.25	Dinitrotoluene, 300 lb bbls. ....	.20	: .22
Citronellol, 1 lb bot. ....	8.00	: 12.00	Powdered, 350 lb bbls. 12/1 spot .....	7.50	: 8.00	Dionin, see Morphine, Ethyl		
Cobalt metal, 100 lb kgs. ....	3.00	: 3.25	Carlots, bbls, spot. ....	7.25	: 7.50	Diphenylamine, 250 lb bbls. ....	.52	: .54
Cobalt Oxide, 500 lb bbls. ....	...	: 2.10	Copperas, bulk c/l wks. ....	20.00	: 21.00	Diphenylazide, 500 lb drums. ....	.85	: .90
10 lb tins 200 lb cases. ....	...	: 2.25	400 lb bbls. c/l wks. ....	...	: 25.00	Dover's Powder, USP 5 lb tins. ....	...	: 2.20
COCAINE alk., USP 1 oz. vial. ....	...	: 11.00	200 lb bbs. c/l wks. ....	...	: 23.00	Duboisine Sulfate, 1 oz. vial. ....	...	: 60.00
Hydrochloride, USP—1 oz. vials, 25 ozs. ....	...	: 7.07	Powdered, bbls. ....	3.45	: 3.75	EARTH, Diatomaceous, see Kisselguhr		
In ¼ oz. vials. ....	...	: 7.50	Corn Syrup, 42 deg. 50 gal. bbls. ....	2.77	: 3.02	Emetine, alk., 15 gr. vls. ....	...	: 1.65
In crystals, granular, powder, or flaky crystals as desired.			48 deg. 50 gal. bbls. ....	2.82	: 3.07	Hydchlde, USP 1 oz. vial. ....	...	: 19.00
Cocoa Butter, bulk, 200 lb bales. ....	.31	: .32	Corrosive Sublimate, see Mercury Bichloride			15 gr. vials. ....	.75	: .80
Fingers, cakes, etc. 12 lb bxs. ....	.36	: .37	Cotton Soluble, 100 lb bbls. wet. ....	.40	: .42	EPSON SALT, tech. 300 lb bbls. NY .....	...	: 2.25
CODEIN alk., 5 oz. cans 10 oz lots .....	...	: 7.30	Coumarin, 25 lb tins. ....	4.00	: 4.25	Bbls. c/l NY .....	...	: 2.10
Hydrobromide, 10 ozs. ....	...	: 5.85	CREAM TARTAR, USP 300 lb bbls. ....	...	: .26½	100 lb bbs. c/l NY .....	...	: 1.85
Hydrochloride, 10 ozs. ....	...	: 6.55	Imp. powd. USP, 224 bbls. ....	.24½	: .25	Imp., 220 lb bbs. c/l NY .....	1.10	: 1.25
Nitrate, 10 ozs. ....	...	: 6.55	Creosote, USP, 42 lb cys. ....	.40	: .45	USP, 300 lb bbls. 10 bbls. 100 lb Carlots, bbls. ....	2.75 : 2.80 : 2.25	: 2.80
Phosphate, 10 ozs. ....	...	: 5.50	Creosote Oil, 50 gal. drs. ....	.20	: .22	Imported, 300 lb bbls. 100 lb	2.25	: 2.60
Salicylate, 10 ozs. ....	...	: 5.50	Carbonate, 1 lb bot. 25 lb ....	1.60	: 1.70	Ergotin, Bonjean, 1 lb jars. ....	9.50	: 10.00
Sulfate, 10 ozs. ....	...	: 5.85	Creosol, USP, 400 lb bbls. ....	.25	: .27	Eserine alk., 1 oz. vial. ....	...	: 30.00
Small Sizes, ¼ oz. vials, 50c extra, ¼ oz. 25c extra, singles 7c extra per oz.—25 oz. lots, 10c oz. cheaper than above. Less than 10 ozs. 15c oz. higher than above						Salicylate, USP 1 oz. vial. ....	...	: 25.00
						Sulfate, USP VIII, 1 oz. vial. ....	...	: 20.00

FORMALDEHYDE

MECCO

The Miner Edgar Company  
 Rail and Water Facilities  
 110 William Street  
 New York

## Chemicals

ETHER, USP 55 lb drums.....lb	.13	.15	Fluorspar, 95% 220 lb bgs. ex			GLYCERIN, C. P. 550 lb drums.....lb	...	.18
Anaesthesia, 55 lb drums.....lb	...	.16	dock .....ton	...	35.00	Cans, 50 lb .....lb	...	.19%
USP, 1880 55 lb drums.....lb	...	.38	96% bgs. ....ton	...	33.50	Dynamite, 1000 lb drs.....lb	...	.16
Washed, 55 lb drums.....lb	...	.30	98% bgs. ....ton	...	35.00	Saponification, tanks .....lb	.12	.12%
Motor, 1 lb cans.....lb	.26	.27	FORMALDEHYDE, USP 400 lb bbls.			Soap, lye, tanks.....lb	.10%	.11
Ether, Nitrous, 1 lb bot.....lb	.92	.95	c/l wks. ....lb	...	.16	Goa Powder, see chrysarobin		
Ethyl Benzyl Aniline, 300 lb drs. lb	...	1.30	Carboys, 100 lb lc/l wks.....lb	...	.16%	Graphite, crude 220 lb bags.....ton	15.00	35.00
Ethyl Acetate, 99% 50 gal. drs. gal	.95	1.05	Bbls. 400 lb lc/l wks.....lb	...	.16%	Flake, 500 lb bbls.....lb	.06	.10
85-90% Ester, 50 gal. drs. gal	...	.85	Second Hands, bbls., chys.....lb	.14%	.16	Ground, lump, bbls.....lb	.04	.05
Carlots, drums .....gal	...	.82	Fuller's Earth, 200 lb bgs. c/l			Gualacol Liquid, USP 25 lb cans. lb	2.50	2.60
Tank Cars .....gal	...	.70	mines .....ton	15.00	17.00	Benzoate, 1 lb bot.....lb	...	18.00
Pure, 5 lb bot.....gal	3.25	3.50	Imported, 230 lb bags NY.....ton	35.00	40.00	Carbonate, 5 lb boxes.....lb	4.25	4.50
Benzoate, 5 lb bot.....lb	1.85	2.00	Fusel Oil, refined, 100 gal drm. gal	3.00	3.50	HAARLEM OIL, Dom. 6 gr. cs. gross	...	3.50
Bromide 115 lb drs.....lb	...	.40	Crude, 100 gal drm.....gal	...	2.00	Imported, 6 gr. cases.....gross	5.25	5.35
Butyrate, 5 lb bot.....lb	2.00	2.25	G. SALT, paste 350 lb bbls. basis			Hellotropin, 10 lb bot.....lb	2.50	2.75
Methyl Ketone, 50 gal. drums. lb	.19	.20	100% .....lb	.60	.65	Hexamethylenetetramine, USP		
Morphine, see Morphine, Ethyl			Gelatin, USP silver bbl. 100 lb cs. lb	.85	.90	100 lb drums .....lb	.95	.97%
Chloride, 15 lb cyl.....lb	...	.50	Gold Label, 100 lb cases.....lb	...	.65	Imported .....lb	...	.85
Cinnamate, 1 lb bot.....lb	5.00	5.50	Technical, 100 lb cs.....lb	.60	.65	Rubber Makers, Impalp. Pd.		
Formate, 5 lb bot.....lb	1.00	1.10	Geranol, 50 lb cans.....lb	2.75	3.50	drs. ....lb	...	.95
Valerate, 5 lb bot.....lb	4.50	4.75	Geranyl Acetate, 1 lb bot.....lb	5.75	6.00	Homatropin Hydrobrom. USP 1 oz.		
Ethylene Bromide, 600 lb drs.....lb	...	.60	GLAUBER'S SALT, tech. 200 lb bags			vial .....oz	...	18.00
Glycol .....lb	1.00	1.25	c/l wks. ....100 lb	1.10	1.25	Five ozs., 1 oz. vials.....oz	...	17.00
Eucalyptol, 25 lb cans.....lb	.80	.85	350 lb bbls. c/l wks.....100 lb	1.25	1.40	Hydrastine Alk., USP, 1 oz. vial. oz	...	20.00
Eugenol, 25 lb cans.....lb	3.25	3.50	Bbls. lc/l wks.....100 lb	1.50	1.75	Hydchlde, USP, 1 oz: vial.....oz	...	20.00
Feldspar, bulk .....ton	20.00	25.00	Imported, bbls. spot.....lb	1.00	1.10	Sulfate, 1 oz. vial.....oz	...	22.00
FERRIC CHLORIDE, tech. crys.			USP, 300 lb bbls. Imp. sp. 100 lb	...	1.25	Hydrastine Hydchlde, USP 15 gr.		
475 lb bbls.....lb	...	.10	USP, 300 lb bbls. dom. sp. 100 lb	...	1.75	vials .....vial	...	2.40
Imported .....lb	...	.07	-USP, 300 lb bbls. c/l wks. 100 lb	...	1.40	Hydrazobenzene, 100 lb kegs.....lb	1.30	1.35
USP, crys. 100 lb kegs.....lb	...	.10	Glucose, (Grape Sugar) dry, 100			HYDROGEN PEROXIDE, 25 vol. 400 lb		
Imported .....lb	...	.09	bags, c/l NY.....100 lb	3.09	3.19	bbls. ....lb	...	.10
Tech. Sol'n 40° 140 lb chys. lb	...	.06%	Syrup, Drs. & bbls. c/l NY 100 lb	2.77	3.02	USP Soln. 375 lb bbls.....lb	.05	.05%
48°, 140 lb chys.....lb	...	.08	lc/l NY .....100 lb	...	3.12	USP bot. 4 oz. cases.....gross	7.50	7.75
USP Sol'n 125 lb chys.....lb	...	.06%	GLUE, pure white, bbls.....lb	.30	.35	Bot. 8 oz. cases.....gross	11.00	11.25
Ferrous Chloride, crys. tech.			Medium white, bbls.....lb	.25	.30	Bot. 16 oz. cases.....gross	18.50	18.75
475 lb bbls.....lb	.06	.06%	French, bbls.....lb	.18	.25	Hydroquinone, 100 lb kegs.....lb	1.05	1.20
Ferrous Sulfide, 1000 lb bbls. 100 lb	2.50	3.00	High Grade, bbls.....lb	.35	.40	Hyocine Hydrobrom. USP 1 oz.		
Flake White, see lead, white			Bone, regular, bbls.....lb	.10	.12	vial .....oz	...	21.00
			Fish, bbls. ....gal	1.50	1.75	Five ozs., 1 oz. vials.....oz	...	20.50

**R&H**  
CHEMICALS

The  
consumer  
knows!

Accordingly they are the stand-  
ard of comparison for sellers

Barium Chloride Sodium Fluoride



The ROESSLER & HASSLACHER CHEMICAL CO.  
NEW YORK

Hyocamine Alk. Cryst., 1 oz. vial os	...	35.00
Alkaloid, Amorphous, 1 oz. vial os	...	75.00
Hydrobromide, USP 1 oz. vial os	...	60.00
Sulfate, 1 oz. vial os	...	35.00
INDOL, C. P. 1 oz. bot.	8.50	9.00
Iodides, see Potas. Iodide, etc.		
IODINE, crude, 200 lb kegs	3.90	3.95
Resublimed, 10 lb jars	...	4.50
Tincture, USP 50 gal. bbls. gal	4.35	4.40
Carboys	4.40	4.50
Iodoform, powd. 10 lb bot.	...	5.75
Crystals, 10 lb bot.	...	6.75
Ionone, (violet) 1 lb bot.	5.50	8.00
Iridium, metal 10oz lots.	...	250.00
Iron, metal by hydrogen 1 lb bot.	.65	.70
IRON & AMM. CITRATE, USP 25 lb cans	...	.84
Green scales, 25 lb cans	...	.84
Cacodylate, 10 lb bot.	9.00	9.25
Citrate, USP VIII 25 lb cans	...	.99
Chloride, see ferric or ferrous		
Hypophosphite, 5 lb cans	1.50	1.80
Syrup, USP VIII	...	.80
Iodide, 1 lb bot	...	4.00
Syrup, USP 5 lb bot.	.33	.34
Nitrate, kegs	.09	.10
Com'l, bbls	2.75	3.25
Oxalate, scales 25 lb cans	.80	.83
& Ammon. Oxalate, 25 lb bxs	.45	.50
& Potassium Oxalate, 25 lb bxs	.47	.48
& Sodium Oxalate, 25 lb bxs	.40	.43
Phosphate, USP 25 lb cans	...	.89
Pyrrophosphate, USP 25 lb cans	.90	.97
Iso-Eugenol, 1 lb bot.	4.25	4.50
JALAP RESIN, lump 5 lb tins	3.25	3.35
Powd., tin	3.40	3.50
KIESELGUHR, 90 lb bags NY ton	60.00	70.00

Litharge, see lead oxide		
Lithum Carb. USP 100 lb kgs	1.50	1.60
Bromide, 100 lb cs	1.70	1.80
Citrate, USP 100 lb kegs	1.60	1.70
Lithopone, 400 lb bbls. lb/ wks	D	.05%
Rbils. c/l wks	D	.05
Imported, bbls	D	.05%
Litmus Cubes	.90	1.00
MAGNESITE, crude	...	15.00
Calcined, 500 lb bbls	...	55.00
Magnesium mil., sticks 100 lb cs	1.40	1.50
Carb. tech. 70 lb bags NY	.08	.08%
75 lb bbls. NY	.09	.08%
USP, 60 lb bbls	.11	.12
MSP, blocks 100 lb cs 1, 2, 4 ozs.	.20	.24
Chloride, fused 575 lb drs. c/l wk.	...	32.00
Flaked, 350 lb drs. wks	...	34.00
Imp., fused 900 lb bbls. NY ton	28.00	28.00
Finosilicate, crystal 500 lb bbls. wks	.15	15%
30% soln. 500 lb bbls. wks	.07	.08
Solin. bbls. c/l wks	...	.06
Glycerophosphate, 5 lb tins	...	3.35
Hypophosphite, 5 lb cans	...	1.15
Oxide, USP light 100 lb bbls	...	.45
USP, heavy 250 lb bbls	...	.50
Peroxide, 5 lb cans	...	3.15
Perborate, 1 lb tins	...	2.25
Salicylate, 100 lb kegs	.67	.70
Sulfate, see Epsom Salts		
Manganese Chloride, 600 lb est. NY	.09%	.10%
Borate, 200 lb bbls	...	.18
100 lb kegs	...	.19
Dioxide, 80-84% 900 lb bbls. NY	30.00	35.00
85-90%, 900 lb bbls. NY ton	35.00	36.00
Hydrated, precip. 100 lb kg	.32	.35

1922

*"Over a Century of Service and Progress"*

**Caustic Soda**  
**Bleaching Powder**  
**Carbon Tetrachloride**

Manufacturers, Importers, Exporters of  
**Industrial Chemicals**

**INNIS, SPEIDEN & CO., Inc.**  
46 CLIFF ST., NEW YORK CITY

**Branch Offices**  
Chicago Philadelphia Boston Cleveland Gloversville, N. Y.

Factories		
Niagara Falls, N. Y.	Jersey City, N. J.	Murphysboro, Ill.
	Owego, N. Y.	

**ACETIC ANHYDRIDE**  
92-95%  
**ALUMINA HYDRATE LIGHT**  
96%  
**ACID PHOSPHORIC**  
50%  
**CARBON DISULPHIDE**  
**CARBON TETRACHLORIDE**  
**SODIUM PHOSPHATE**  
Monobasic — Dibasic — Tribasic

**THE WARNER  
CHEMICAL COMPANY**  
*Manufacturers*

**52 Vanderbilt Avenue, New York**  
Telephone Murray Hill 0262

*Plants*  
Carteret, N. J.      South Charleston, W. Va.



## Chemicals

## Manganese—(continued)

Glycerophosphate, 5 lb tins....lb	...	3.05
Hypophos, USP VIII 5 lb cans..lb	...	1.65
Iodide, 1 lb bot.....lb	...	6.35
Ore, bulk NY.....unit	...	.30
Sulfate, 600 lb casks NY....lb	...	.11

Marble Flour, bulk.....ton 10.00 : 12.00  
See also Calcium Carbonate

METHOL, USP, 60 lb cases....lb ... : 9.75  
Less cases, 5 lb tins....lb ... : 10.00

MERCURY, metal 75 lb flask..flask 73.00 : 74.00

Less Flasks, 5 lb fugs....lb 1.02 : 1.04

Bichloride, cryst. 25 lb bxs....lb ... : 1.17

Gran. powd., 200 lb kegs....lb ... : 1.02

Bisulfate, 25 lb boxes....lb ... : .86

Blue Mass, 25 lb boxes....lb ... : .62

Powdered, 25 lb boxes....lb ... : .64

Blue Ointment, USP 25 lb cans

50% .....lb ... : .80

USP, dilute 25 lb cans 80%..lb ... : .62

33 1/3% Mercury.....lb ... : .67

Calomel, 50 lb bxs.....lb ... : 1.25

Citrine Ointment 25 lb jars..lb ... : .50

Iodide, green 25 lb jars....lb ... : 3.86

Red, USP 25 lb jars....lb ... : 3.96

Yellow, USP VIII 25 lb jars..lb ... : 3.86

Red Precip. USP 25 lb bxs....lb ... : 1.38

Powder, USP 25 lb bxs....lb ... : 1.48

White Precip. USP 25 lb bxs..lb ... : 1.49

Powder, USP 25 lb bxs....lb ... : 1.54

With chalk, USP 25 lb bxs....lb ... : .62

Meta-Nitroaniline, 300 lb bbls..lb ... : .80

Meta-Nitro-para-Toluidine, 300 lb

bbls.....lb 2.35 : 2.30

Meta-Phenylenediamine, 300 lb

bbls.....lb 1.00 : 1.10

Meta-Toluylenediamine, 300 lb

bbls.....lb .95 : 1.00

## METHANOL (Wood Alcohol)

95%, 50 gal. drms. ext....gal	1.20	1.22
97%, 50 gal. drms. ext....gal	1.23	1.24
Pure, 50 gal. drms. ext....gal	1.30	1.32
Acetone free, 50 gal. drms. ext.gal	1.35	1.40

Methyl Acetone, 100 gal. drums..gal ... : .70

Tank cars .....gal ... : .85

Anthranilate, 1 lb bot.....lb 4.00 : 4.50

Chloride, 90 lb cyl.....lb ... : .50

Cinnamate, 1 lb bot.....lb 4.50 : 5.00

Paracresol, 1 lb bot.....lb 8.00 : 9.00

Salicylate, USP 50 lb cases....lb ... : .57

50 lb drums .....lb ... : .55

Second Hands, cases....lb ... : .52

Methylene Blue, tech. 100 lb kgs..lb 1.00 : 1.50

USP, medicinal 5 lb cans....lb 2.25 : 2.60

Miehler's Ketone, 225 lb bbls..lb ... : 3.75

Milk, powd. 150 lb bbls....lb .14 : .15

Milk Sugar, see sugar of milk

Mineral Oil, see oil mineral

Monochlorobenzene, see chlorobenzene

Monoethylaniline, 900 lb drs....lb 1.00 : 1.05

MORPHINE Sulfate, USP 5 oz. tins

10 oz. ....oz. ... : 5.35

Acetate, 5 oz. tins 10 oz. lots.oz. ... : 5.35

Hydrobromide, 5 oz. tins 10 oz. lots

Hydride, 5 oz. tins 10 oz. ....oz. ... : 5.35

lots .....oz. ... : 5.35

Diacetyl Alk., 1/4 oz. vials 10

oz. ....oz. ... : 8.95

Hydride, 1/4 oz. vials 10 oz. ....oz. ... : 8.10

Ethyl Hydride, 1/4 oz. vials 10

oz. ....oz. ... : 9.45

Small Sizes: 1/4 oz. vials, 50c extra;

1/4s 25c extra; single oz. vials, 7c extra,

over price for 5 oz. tins. 25 oz. lots

in 5 oz. tins. 10c oz. lower than

above schedule. Less than 10 oz. lots

15c oz. higher than above schedule.

Musk Ambrette, 1 lb cans.....lb 15.00 : 16.00

Ketone, 1 lb cans.....lb 14.00 : 14.50

Xylene, 5 lb cans.....lb 3.25 : 3.50

## NAPHTHA, Solvent, 110 gal. dra

whs. ....gal ... : .32

8000 gal. tank car whs....gal ... : .37

NAPHTHALENE, Flake, 375 lb bbls.

whs. ....lb .08 1/2 : .07

Bbls. c/l wks.....lb .08 : .07

Bbls. second hands NY....lb .08 1/2 : .07 1/2

Balls, 250 lb bbls. wks.....lb .07 1/2 : .08

Bbls. c/l wks.....lb .07 : .08

Crushed bgs. wks.....lb ... : .05

Crude, imp., bgs.....lb .02 1/2 : .03

Nerolin, 1 lb tins.....lb 1.75 : 2.00

Nickel Metal, electrolytic 100 lb

kegs.....lb ... : .36

Shot, 100 lb kegs.....lb ... : .37

Salt, single 400 lb bbls. NY..lb .07 1/2 : .08

Double, 400 lb bbls. NY..lb .08 : .09

Oxide, 100 lb kegs NY....lb .40 : .42

Nitre Cake, bulk wks.....ton 6.50 : 8.00

500 lb bbls. ....ton 9.00 : 9.75

Nitrobenzene, crude 1000 lb dra

wks.....lb .09 1/2 : .10 1/2

Redistilled, 1000 lb dra. wks..lb .10 : .11

Nitronaphthalene, 550 lb bbls..lb .20 : .22

Nitrotoluene, mixed 1000 lb dra

whs. ....lb .14 : .16

Oil Fuel, see Fuel Oil

OIL MINERAL, wh. 50 gal. bbls.gal 1.00 : 1.25

Oil Mirbane, see nitrobenzene

Optum, see crude drugs

Orange Mineral, 800 lb casks NY..lb ... : .13 1/2

500 lb bbls. NY.....lb ... : .14

Ortho-Aminophenol, 50 lb kegs..lb 2.35 : 2.50

Ortho-Anisidine, 100 lb dra....lb 2.00 : 2.10

Ortho-Dichlorobenzene, 1000 lb dra

whs. ....lb .15 : .17

Ortho-Nitrochlorobenzene, 1200 lb

dra. wks. ....lb .32 : .35

Ortho-Nitrophenol, 350 lb bbls..lb .80 : .85

# "Baker's"

## Dependable CHEMICALS

A FEW OF "BAKER'S" DEPENDABLE CHEMICALS THAT ARE IN CONSTANT DEMAND

Acid Molybdic  
Acid Phosphoric Anhydride  
Ammonium Molybdate, cryst  
Ammonium Persulfate, 98%  
Calcium Chloride, anhydrous granular  
Copper Chloride, cupric  
\*Nickel Formate  
Potassium Binoxalate  
Potassium Thiocyanate  
Sodium Oxalate  
Tin Crystals

\*Nickel Formate has been demonstrated to be a superior catalyst for oils. Many concerns are changing through preference for it.

Thousands of buyers who prefer Baker's find a perennial economy in *knowing* that Baker's is dependable. What if they had to test it each time, or even at longer intervals, to make sure! Baker's Industrial Chemicals are pure. They are often equal to C. P.

### LET US QUOTE YOU ON THESE

Do you get our Monthly Price List o Industrials? We'll gladly add your name to the list. Does your Chemist know about "Baker's Analyzed" Chemicals?

## J. T. BAKER CHEMICAL CO.

PHILLIPSBURG N. J.

New York Representative: H. B. PRIOR, 17 E. 42nd St. Phone: Vanderbilt 9490

## Chemicals

Ortho-Nitrotoluene, 1000 lb. drs. wks. ....	.11 : .12	Para-Phenylenediamine, 350 lb. bbls. ....	1.50 : 1.60	Phosphorus, red 110 lb. cs. wks. lb. Imported, 112 lb. cases.....	.35 : .50 ... : .30
Ortho-Toluidine, 350 lb. bbls.....	.14 : .16	Para-Toluene-Sulfonamide, 175 lb. bbls. ....	.40 : .42	Phosphorus Sesquisulfide, 105 lb. cs. wks. ....	... : .37%
Orgall, USP 5 lb. bot.....	... : 3.00	Para-Toluene-Sulfonochloride, 410 lb. bbls. wks. ....	.11 : .14	Phosphorus, yellow 110 lb. cs. wks. lb. Imported, 112 lb. cases.....	.32 : .35 .25 : .27%
PALLADIUM, metal 10 oz. lots cs	51.00 : 53.00	Para-Toluidine, 350 lb. bbls. wks. lb.	1.00 : 1.15	Phosphorus Trichloride, 175 lb. cyl wks. ....	.30 : .35
Pancreatin, USP 5 lb. bot.....	1.25 : 1.40	PARIS GREEN		Phthalic Anhydride, 175 lb. bbls. lb.	.35 : .40
Papain, 1 lb. bot.....	2.15 : 2.25	Arsenic Basis, 500 lb. kegs.....	.23 : .26	Pilocarpine Hydrochloride, USP 25 oz. lots, 1 oz. vials.....	... : 8.00
Para-Am. ref'd. 200 lb. cs. alabs		Kegs, 100 lbs. ....	... : .28	Nitrate, ....	... : 8.00
120-125 Deg. M. P.....	.03% : .03%	Kits, 56, 28, 14 lbs.....	... : .29	Single ounces .....	... : 8.25
125-130 Deg. M. P.....	.04 : .04%	Packages, 5 and 2 lbs.....	.30 : .32	Alkaloid, 15 gr. vls.....	... : .75
130-135 Deg. M. P.....	.04 : .04%	Packages, 1 lb, 1/2, 1/4 lb.....	.32 : .36	Piperazine Hydrate, 1 lb. bot.....	... : 16.00
135-140 Deg. M. P.....	.05 : .06%	Paris White, see whitening, French		Pitch, Coal-Tar wks.....	30.00 : 33.00
Para-Aminocetanilid, 100 lb. kegs .....	1.25 : 1.35	Pepsin, USP 5 lb. bot.....	2.25 : 2.50	Master Paris, tech. 330 lb. bbls. bbl	4.25 : 4.40
Para-Aminophenol, 100 lb. kegs..	1.10 : 1.25	PETROLATUM, green 300 lb. bbls. lb.	.02% : .03	True Dental, bbls.....	4.35 : 4.50
Hydrochloride, 100 lb. kegs.....	1.20 : 1.25	Dark Amber 300 lb. bbls.....	.03% : .04	Platinum, metal soft 10 oz. lots. oz	... : 118.00
Para-Anisidine, 100 lb. kegs.....	3.00 : 3.25	Light Amber, 300 lb. bbls.....	.03% : .04	Podophyllin, 5 lb. bot.....	5.75 : 6.00
Technical, kegs .....	1.85 : 1.75	Cream White, USP 300 lb. bbls. lb.	.07 : .07%	POTASH, CAUSTIC, solid 88-92% 700 lb. drs. wks.....	... : .08
Para-Dichlorobenzene, 270 lb. bbls. wks. ....	.17 : .30	Lily White, USP 300 lb. bbls. lb.	.09 : .09%	Imp., 88-92% 700 lb. drs. NY. lb.	.06% : .07
Paraldehyde, 100 gal. drs.....	... : .35	Snow White, USP 300 lb. bbls. lb.	.12 : .12%	USP, by alcohol 5 lb. cans.....	.46 : .48
Paraformaldehyde, USP 100 lb. cs. lb.	.52% : .55	PHENOL, see also acid carbolle		cases .....	.30 : .35
Para Nitroacetanilid, 300 lb. bbls. ....	.55 : .60	Open market, 950 lb. drs.....	.33 : .35	POTASSIUM Acetate, USP 100 lb. kegs .....	.28 : .29
PARA-NITROANILINE, 300 lb. bbls. wks. ....	.73 : .78	240 lb. des. drs.....	.33 : .35	Bicarbonate, crys. 220 lb. bbls. lb.	.08 : .09
Para-Nitrochlorobenzene, 1200 lb. drs. wks. ....	.25 : .27	Natural 240 lb. des. drs. wks..	... : ...	Bichromate, crys. 900 lb. cases wks. ....	.10 : .10%
Para-Nitro-ortho-Toluidine, 300 lb. bbls. ....	2.75 : 2.85	Imported, 336 lb. des. drs.....	.35 : .40	Powd., 900 lb. cases wks.....	.13 : .18%
Para-Nitrophenol, 185 lb. bbls.....	.72 : .75	Phenolphthalein, USP 100 lb. drs. lb.	... : 1.50	Rinoxolate, 300 lb. bbls.....	.34 : .38
Para-Nitrosodimethylaniline, 120 lb. bbls. ....	... : ...	5 lb. cans, 100 lb. lots.....	1.55 : 1.60	Bisulfate, C.P. 5 lb. cans.....	... : .30
Para-Nitrotoluene, 350 lb. bbls..	.60 : .75	Phenylacetaldehyde, C.P., 1 lb. bot. lb.	12.50 : 14.00	100 lb. kegs .....	... : .32
Para-oxo-Benzaldehyde, 100 lb. kegs .....	1.50 : 1.60	50 p.c. ....	7.50 : 8.00	Bromate, 100 lb. cs.....	... : .45
Para-Phenetidin, 500 lb. drs.....	1.35 : 1.40	Phenylacetic Acid, 1 lb. bot.....	3.00 : 4.00	BROMIDE, USP cryst. 450 lb. bbls. ....	... : .26
		Phenyl-Alpha-Naphthylamine 100 lb. kegs .....	... : ...	Granular, 300 lb. bbls.....	... : .28
		Phenylethylalcohol, 1 lb. bot.....	7.00 : 9.00	Cases, 100 lb. ....	... : .27
		Imported .....	... : 12.50	Imported, USP 220 lb. cs.....	.17 : .19
		Phosgene, cylinders wks.....	.60 : .65	Cases, 112 lb. ....	.18 : .20
		Phosphorus Oxichloride, 175 lb. cyl. lb.	.30 : .35		

## DINITROTOLUENE

**P**ROBABLY the most vital factor governing the manufacture of artificial colors is the quality of the intermediates used for their synthesis.

Many consumers of Du Pont Dinitrotoluene continue the exclusive use of our product because it still is the market standard to which all others are compared.

E. I. du Pont de Nemours & Co., Inc.,

Dyestuffs Department,  
WILMINGTON DELAWARE  
8 Thomas St., New York, N. Y.



THE *Selden* BRAND

## PHTHALIC ANHYDRIDE

### Pure Needle Crystals

MADE BY AIR OXIDATION PROCESS

HIGHEST DEGREE OF PURITY

NO VARIATION IN QUALITY

## The Selden Co.

PITTSBURGH, PENN., U. S. A.

Specifications on Request

## Chemicals

## Potassium—(continued)

<b>CARBONATE, 80-85% calc.</b>		
800 lb cks. ....	.05½	.06
80-85%, hydrated, 800 lb.		
cks. ....	.07½	.08
90-95% casks ....	.06½	.07
96-98% casks ....	.07½	.07½
99% casks ....	.08	.08½
USP, 100 lb kegs. ....	.10	.11
Chlorate, crys. 112 lb kgs wks. lb	.08½	.08½
Imp. 112 lb kegs NY. ....	.07½	.07½
Powd., 112 lb kegs wks. ....	.08½	.08½
Imp. kegs NY. ....	.07½	.07½
Pyrotechnic, fine powd. NY. ....	.08	.09
USP, fine crys. 110 lb kegs		
NY ....	.08	.09
Citrate, USP 10 lb cans. ....	.63	.66
Glycerophosphate, 75% Soln. 25 lb		
tins ....	1.65	1.70
Guaiaol Sulfonate, 5 lb cans,		
10 lb ....	1.50	1.75
Hypophosphite, 10 lb cans. ....	...	.85
Iodide, USP, 100 lb cases. ....	3.60	3.65
Second Hands, cases. ....	...	3.65
Lactophosphate, 4oz bot. ....	...	.90
Metabisulfite, 300 lb bbls. ....	...	.23
Imp., 300 lb bbls. ....	.15	.17
Muriate, 80%, 200 lb bags, NY		
K <sub>2</sub> O unit ....	...	.70
Nitrate, see Saltpetre		
Oxalate, neutral, 100 lb kegs. ....	.40	.45
Perchlorate, 112 lb kegs. ....	.09	.10
Permangan, USP crys. 112 lb drs. lb	.15½	.16
USP small cry. 112 lb drms. ....	.15½	.16
Prussiate, red, 100 lb bbls. ....	...	.90
500 lb casks ....	...	.85
Prussiate, yellow, 500 lb casks. ....	.38	.39
Salicylate, 25 lb cans. ....	.70	.72

## Potassium—(continued)

Sulfate, 200 lb bags, NY K <sub>2</sub> O unit	...	.95
USP, VIII, 100 lb kegs. ....	.18	.20
Sulfocyanide, CP 25 lb jars. ....	...	.70
Tartrate, neutral, 100 lb kegs. ....	...	.53
Titanium Oxalate, 200 lb bbls.		
freight allowed ....	...	.35
Pumice Stone, lump, 250 lb bbls. ....	.04½	.06
Lump, bags ....	.03½	.05
Powdered, 350 lb bbls. ....	.02½	.03
Pyridine, 50 gal. drums. ....	1.75	1.80
<b>QUICKSILVER, see Mercury</b>		
Quinidine Alk., 100oz tins. ....	.70	.75
Sulfate, 100oz tins. ....	...	.50
<b>QUININE SULFATE, USP,</b>		
American, 100oz tins. ....	...	.50
1oz tins, 100oz lots. ....	...	.57
Dutch, 100oz tins. ....	...	.50
Java, 100oz tins. ....	...	.50
Japanese, 100oz tins. ....	...	.49
<b>QUININE ALK., USP, 100oz tins. ....</b>	...	.67
Acetate ....	...	.88
Arsenate ....	...	.88
Benzoate ....	...	.88
Bisulfate, USP ....	...	.50
Citrate ....	...	.62
Dihydrate, USP ....	...	.66
Dihydrate ....	...	.66
Dicarbonate, 10oz tins. ....	...	2.50
Ethyl Carbonate, 16 oz tins. ....	...	.95
Ferrocyanide ....	...	.88
Formate ....	...	.85
Glycerophosphate ....	...	.88
Iodide ....	...	.88
Hydrobromide, USP ....	...	.62
Hydrochloride, USP ....	...	.62
Hydrochlorosulfate ....	...	.66

## QUININE—(continued)

Hydride & Urea, USP. ....	...	.88
Hypophosphite ....	...	.83
Lactate ....	...	.78
Phenolsulfonate ....	...	.88
Phosphate ....	...	.74
Salicylate, USP ....	...	.63
Tannate, USP ....	...	.45
Tartrate ....	...	.88
Valerate ....	...	.89

Small Sizes: 1oz vials or cans,  
50oz lots, 5c oz extra; 5oz cans,  
50oz lots, 3c oz extra; 25oz cans  
50oz lots, 2c oz extra; single 1oz  
vials or cans, 5c extra. All minor  
quinine salts sold and quoted basis  
100oz lots in 100oz cans. Sulfate  
and bisulfate sold basis 100oz  
lots in 100oz cans. Smaller orders  
or containers extra as above  
schedule.

R SALT, 250 lb bbls. wks. .... .55 : .60

Red Lead, see lead oxide

Red Precipitate, see mercury.

Resorcin, see resorcinol.

Resorcinol tech. 100 lb kegs. .... 1.50 : 1.55

USP, 25 lb cans .... 2.00 : 2.10

Rochelle Salt, USP, 225 lb bbls. .... .21

Imp. USP, 300 lb bbls. .... .19 : .21

Rosewater, triple, 5gal. dems. .... 1.15 : 1.25

Rotten Stone, lump imp., bbls. .... .07 : .03

Lump selected, bbls. .... .09 : .12

Powdered, bbls. .... .02 : .05

Domestic, bags, mines. .... ton 24.00 : 30.00



LES USINES

**"ALLONDON"**  
LA PLAINE—GENEVA  
SWITZERLAND

**Atropine  
Hydrastine  
Sparteine  
Yohimbine**

**J. E. DOCKENDORFF & CO.**

*Sole Agents and Representatives*

20 BROAD ST., NEW YORK

Tel. Rector 4333-4

Cable "Dockendorf,"



## Chemicals

<b>SACCHARIN, USP, 1 lb cans, 25 lb</b>			<b>Soap, Castile, 40 lb bxs.....lb</b>			<b>SODIUM ACETATE, crys 450 lb bbls</b>		
Soluble, USP, 1 lb cans, 25 lb..lb	1.90	: 2.00	Powd. USP, 250 lb bbls.....lb	.28	: .29	wks.....lb	.08	: .08½
Safrol, 60 lb cans.....lb	.55	: .60	Green, USP, 150 lb kegs.....lb	.08½	: .07	Ton lots, bbls wks.....lb	.07½	: .08
Sal Ammoniac, see Ammon. Chloride			Prices on soda alkalies are based on actual percentages and not N. Y. & L. test.			Aluminate Sulfate, see alum soda.		
Salicin, USP, 1 lb cartons, 25 lb..lb	5.00	: 5.25	Soda Ash, 58% light bags NY			Benzoate, USP, 250 lb bbls.....lb	.65	: .70
Salol, USP, 100 lb drums.....lb	.90	: .95	flat, ex-warehouse.....100 lb	...	: 2.01	Bicarbonate, 400 lb bbls.....100 lb	...	: 2.15
Second Hands.....lb	.85	: .90	Contract, Basis 48% bags c/1			Bbls c/1 wks.....100 lb	...	: 1.75
Salt, Common, see sodium chloride.			wks.....100 lb	...	: 1.20	112 lb kegs.....100 lb	...	: 2.00
Salt Cake, c/1 f.o.b. wks.....ton	28.00	: 30.00	Prompt and spot, Basis 48% bags			112 lb kegs, NY.....100 lb	...	: 2.40
<b>SALTPETRE, Double Refined</b>			c/1 wks.....100 lb	1.25	: 1.30	Bichromate, 600 lb casks wks..lb	.07½	: .08
Granular, 400-500 lb bbls.,			Soda Ash, 58% dense. bags ex-			Casks, c/1 wks.....lb	.07½	: .07½
c/1 wks.....lb	...	: .06½	warehouse, NY.....100 lb	...	: 2.07	Bisulfite, dry powder, 500 lb		
Less c/1 works, bbls.....lb	...	: .06½	Contract, Basis 48% bags c/1			bbls, wks.....lb	.04	: .04½
Large Crystals, 350-400 lb bbls.,			wks.....100 lb	...	: 1.25	Solution, 32-40°, 500 lb bbls	1.15	: 1.80
c/1 wks.....lb	...	: .08	Pmpt. and spot, Basis 48% bags			wks.....100 lb	...	: 1.80
Small Crystals, 350-400 lb bbls.			c/1 wks.....100 lb	1.30	: 1.35	Bromide, USP, Cryst 500 lb bbls		
c/1 wks.....lb	...	: .07½	<b>SODA, CAUSTIC, 76% solid, resale,</b>			lb.....lb	...	: .25
Powdered, bbls. c/1 wks.....lb	...	: .08	NY flat.....100 lb	3.50	: 3.60	Cases, 100 lb.....lb	...	: .28
Imported, 500 lb bbls., NY.....lb	.06½	: .06½	76% solid drs. ex-warehouse			Imp. USP, 112 lb cs.....lb	.18	: .20
Santonin USP, 1 lb bot.....lb	173.00	: 175.00	NY.....100 lb	...	: 3.72	Cacodylate, USP, 5 lb bot,		
Powd. 1 lb bot.....lb	173.50	: 175.50	Contract basis 60% c/1 wks			25 lb.....lb	6.00	: 6.25
Saponin, ex Quillaia, 5 lb tins..lb	1.25	: 1.56	c/1 wks.....100 lb	2.57½	: 2.60	Carbonate, sal soda, 350 lb bbls	1.30	: 1.35
Schaeffer's Salt, 250 lb bbls.wks..lb	.60	: .65	Contract 60% low grade c/1			lc/1 wks.....100 lb	...	: 1.25
Scopolamine, see hyoscyne.			wks flat.....100 lb	...	: 2.65	Ton lots, wks.....100 lb	...	: 1.25
Selditz Mixture, 225 lb bbls....lb	.17	: .18	Ground & flake, 76% pmpt and			USP monohyd, 100 lb keg..lb	...	: .05½
<b>SILICA</b>			spot, wks c/1 drs.....100 lb	...	: 3.72½	Pure photographic, 100 lb		
Crude, bulk, mines.....ton	10.00	: 12.00	Contract 60% low grade c/1			keg.....lb	.08	: .09
Refined, floated, bags.....ton	18.00	: 30.00	wks flat.....100 lb	...	: 2.65	Chlorate, 112 lb kegs, wks...lb	.06½	: .07
Air floated, bags.....ton	32.00	: 50.00	Ground & flake, 76% pmpt and			Imported, 112 lb kegs.....lb	...	: .06½
Extra, floated, bags.....ton	55.00	: 65.00	spot, wks c/1 drs.....100 lb	...	: 3.72½	Chloride, tech 200 lb bags,ton	12.00	: 15.00
<b>SILVER, metal, American.....oz</b>			Contract, 76% drums, c/1 wks			C. P. 300 lb bbls.....lb	.05	: .06
Foreign.....oz	...	: .63	flat.....100 lb	...	: 3.65	Citrate, USP, IX, 100 lb kegs..lb	...	: .62
Colloidal, 16oz bot.....oz	...	: 1.60	76% drs. ex-warehouse NY100 lb	...	: 4.16	USP, VIII, 100 lb kegs...lb	...	: .55
Nitrate, USP, 200oz bot.....oz	.44½	: .44½	USP, stick, 10 lb cans.....lb	.19	: .21	Cyanide, 96-98%, 100 lb cases		
Nucleinate, 16oz bot.....oz	.32	: .37	Pure, stick, by alcohol.....lb	.25	: .27	wks.....lb	...	: .23
Proteinates, 16oz bot.....oz	.34	: .39				Ton lots, wks.....lb	...	: .23
						73-76%, 100 lb cases, wks..lb	...	: .20½
						Imp. 128%, 200 lb cases..lb	.22	: .25
						120%, cases.....lb	.20	: .21
						Fluoride, 350 lb bbls, NY imp..lb	.09½	: .09½



Manufacturers of

Soda Ash 58%

Caustic Soda 76-78%

Modified Soda

Bicarbonate of Soda, U.S.P.

Special Alkali

OUR complete plants at Painesville, Ohio  
are directly served by three trunk  
line railroads. We are excellently situ-  
ated to serve you to advantage.

Please address all inquiries to our General Offices at Pittsburgh, Pa.

DIAMOND ALKALI CO.

PITTSBURGH,

PENN.



## Chemicals

## Sodium—(continued)

Glycerophos, USP, crys 25 lb cans .....	1.70	: 1.75
Powder, 25 lb tins .....	1.75	: 1.80
Solution, USP 25 lb tins .....	1.00	: 1.05
Hydrosulfite, 200 lb bbls, fob, wks. lb .....	.19	: .22
Hydroxide, see Soda Caustic		
Hypophosphite, USP, 25 lb cans .....		: .75
<b>HYPOSULFITE</b> , tech. pea crys., 375 lb bbls. wks. 100 lb .....	3.60	: 3.85
Bbls c/l wks. 100 lb .....		: 3.45
100 lb kegs wks. 100 lb .....	3.95	: 4.25
Granulated, bbls. wks. 100 lb .....	3.85	: 4.05
Bbls. c/l wks. 100 lb .....		: 3.95
Kegs wks. 100 lb .....	4.20	: 4.50
Regular crystals 25e per 100 lb .....	3.00	: 3.25
Iodide, USP, 25 lb jars .....		: 4.00
Metanilate, 150 lb bbls. ....	.80	: .82
Naphthionate, 300 lb bbls. ....		: .58
Nitrate, crude, 95%, 200 lb bgs c/l NY .....		: 2.57½
Futures, NY, 100 lb .....		: 2.60
Double Refined, 400 lb bbls wks .....	.04½	: .04½
Nitrite, 500 lb bbls wks. ....	.09	: .09½
Bbls spot, makers. ....		: .10
Imp. 650 lb cases. ....	.08½	: .08½
<b>Ortho-Chloro-para-Toluene</b> Sulfonate, 175 lb bbls wks. lb .....	.25	: .27
Oxalate, neutral, 100 lb kegs. lb .....		: .47
Perborate, 275 lb bbls. ....		: .24
Imp., 225 lb drs. ....	.18	: .19
Peroxide, 200 lb cases. ....	.25	: .27
Phosphate, di-sodium, tech 550 lb bbls .....	.03½	: .04½
USP, gran. 275 bbls. ....	.07	: .07½
Imp. gran. ....	.05½	: .08
USP, recryst 275 bbls. ....	.10	: .11
Mono-sodium 100 lb kegs. lb .....	.25	: .27
Tri-sodium tech. 550 lb bbls. lb .....	.04½	: .05½
Picramate, 100 lb kegs. ....		: .60

## Sodium—(continued)

<b>Para-Toluene Sulfonate</b> , 175 lb bbls .....	.08	: .09
<b>PRUSSIAN</b> , yellow, 450 lb cns. lb .....	.19	: .19½
Pyrophosphate, 100 lb kegs. ....	.18	: .22
Salicylate, 100 lb kegs. ....	.47	: .49
Second Hands, USP, kegs. lb .....	.42	: .45
Silicate, 60° 700 lb bbls. f.a.s. NY .....		: 2.00
Works, 1000 lb drums. ....		: 1.90
Works, tanks. ....		: 1.75
40° domestic, 700 lb c/l f.o.b. wks. ....	.95	: 1.10
Works, 1000 lb drums. ....		: .82½
Works, tanks. ....		: .72½
Spot, drums, bbls. ....	1.25	: 1.50
Silicofluoride, 450 lb bbls NY. lb .....	.07½	: .08
Sulfate, see Glauber's Salt.		
Sulfide, 60% solid, 650 lb drs wks. ....	.05	: .05½
Drs. c/l wks. ....		: .03½
Imp. 700 lb drs NY. ....		: .04
60% broken, 650 lb drs wks. lb .....	.05½	: .05½
Imp. 500 lb drs NY. ....		: .04½
30% crys. 400 lb bbls wks. lb .....	.02½	: .03½
Imp. 400 lb bbls. ....		: .02½
Sulfite, crys, 400 lb bbls wks. lb .....	.03½	: .03½
Dessicated, 400 lb bbls. ....	.09½	: .10
<b>Sulfocarbolate</b> , USP, 100 lb kegs .....	.41	: .43
Sulfocyanide, 400 lb bbls. ....	.45	: .47
Tungstate, crys 100 lb kegs. lb .....		: .55
Dessicated, kegs .....		: .65
Solvent Naptha, see Naphtha.		
Sparteine Sulfate, USP, 25oz bulk. oz .....	.60	: .70
Single oz. vial. ....		: .60
Starch, rice, 140 lb bags. ....	.09	: .10

## STRONTIUM Bromide, USP, 100 lb

Carb. 600 lb bbls. wks. ....		: .23
100 lb kegs wks. ....		: .07
Iodide, USP, 25 lb jars. ....		: .08
Nitrate, 600 lb bbls. wks. ....		: 3.90
Imp. bbls. NY. ....	.11	: .11½
Salicylate, USP, 100 lb kegs. lb .....	.08½	: .10
		: .65
<b>STRYCHNINE</b> Alkaloid, USP, crys 100oz tins .....		: 1.15
Alk. powd, USP. ....		: 1.05
Acetate .....		: 1.05
Glycerophosphate, USP .....		: 1.05
Hydrobromide .....		: 1.05
Hydrochloride .....		: 1.05
Hypophosphite .....		: 1.15
Nitrate, USP .....		: 1.05
Phosphate .....		: 1.05
Sulfate, USP, crys powd. ....		: .84
Saccharinate .....		: 2.15
Strychnine preparations quoted bases 100oz lots in 100oz tins. Small Sines; ¼oz vials, 50c extra; ½oz vials, 25c extra; single ounce vials, 7c extra. Lots of 25 ozs. 5c higher than above schedule. Lots of less than 25 ozs. 10c higher per oz.		
Sugar Milk, USP, 200 lb bbls. ....	.21	: .22
Second Hands, USP, bbls. ....		: .23
<b>Sulfonal</b> , see Sulfonmethane.		
Sulfonmethane, USP, 5 lb bxs. ....		: 4.25
Sulfonethylmethane USP, bxs, 5 lb. ....		: 5.25
<b>SULFUR</b> , crude, bulk, c/l NY. ton .....		: 18.00
Crude, f.o.b. plant. ....	14.00	: 15.00
Brimstone, 250 lb bgs, c/l 100 lb .....	1.75	: 1.95
Less c/l bags NY. ....	1.85	: 2.10
Roll, 500 lb bbls c/l NY. 100 lb .....		: 2.15
Less c/l bags NY. ....	2.20	: 2.45
<b>Flour</b> , Heavy, 200 lb bbls, 100 lb .....	2.50	: 3.05
Light, 100%, 200 lb bbls, 100 lb .....	2.60	: 3.15
Rubbermakers 100%, 240 lb bbls, NY .....	2.60	: 3.15



# SOLVAY

STANDARD IN  
**SODA**  
SINCE 1881

Selling Agents

## WING & EVANS

INC.

NEW YORK-22 William St.      BOSTON-89 State St.  
 DETROIT-625 Book Bldg      CHICAGO-30 N. Dearborn St.  
 PITTSBURG-331 Fourth Ave.

As the largest producers of alkali, we recognize our responsibility of not only holding up, but raising the high standards of quality we have set during the past forty years. That's why Solvay works to a more rigid set of standards in manufacture.

**SODA ASH**

CAUSTICIZED ASH

**CAUSTIC SODA**

MODIFIED SODA

## Chemicals

## SULFUR—(continued)

Commercial, 99%, 150 lb bgs		
NY	1.35	1.65
For Dusting, 99%, 100 lb		
bgs NY	2.00	2.50
Flowers, 100%, 240 lb bbls		
NY	3.00	3.55
Precipitated, 125 lb bbls NY	.15	.18
Lac, 125 lb bbls NY	.07	.10
Sulfur Chloride, red, 700 lb drs		
wks	.05½	
150 lb chys wks	.05	
Yellow, 700 lb chys wks	.05	
150 lb chys wks	.05½	
Sulfur Dioxide, 100 lb cyl	.08	.08½
Sulfuric Ether, see Ether		
Sulfuryl Chloride, 600 lb drs	.70	
TALC, Italian, 220 lb bags NY	35.00	40.00
Refined, white, bags	42.00	55.00
French, 220 lb bags NY	25.00	30.00
Refined, white, bags	32.00	45.00
Dom, crude, 100 lb bags NY	15.00	18.00
Refined, 100 lb bags NY	20.00	30.00
Tartar Emetic, tech, 700 lb bbls	.27	.27½
USP, 300 lb bbls	.34½	.35½
Terpin Hydrate, USP, 100 lb kegs	.75	.75
Terpineol, CP 1000 lb drums	.50	.60
Cans, 50 lb	.55	.60
Imported, cans, 25 lb	.70	.75
Terpenyl Acetate, 25 lb cans	1.75	2.00
Terra Alba, No. 1, 300 lb bbls	1.85	1.90
No. 2, bbls	1.25	1.35
Theobromine Alk, 5 lb cans	.60	
and Sod. Salicylate, 1 lb bot.	.40	
Thiocarbamid, 170 lb bbls	.35	.37
Thymol, USP, 10 lb cans	4.00	4.25
Iodide, 5 lb boxes	6.75	7.00
TIN, Metal Stralts, NY	38.37	
American Standard, NY	37.75	
99% American, NY	37.25	
C.P. moscy, 25 lb bxs NY		

## Tin—(continued)

Bichloride, 50% soln 100 lb		
bbls wks	.10½	.10½
Crystals, 500 lb bbls wks	.32½	
100 lb kegs, wks	.33	
Oxide, 400 lb bbls wks	.43	
100 lb kegs wks	.44	
Tetrachloride, 1000 lb drs wks	.21½	.22
Toluidine, 350 lb bbls	1.15	1.20
Sulfate, 350 lb bbls	1.00	
Toluene, 8000 gal tank cars, wks gal	.30	
110 gal drs wks	.35	
Toluidine, Mixed, 900 lb drs wks	.30	.32
Tribromphenol, 100 lb cases	1.00	
Trional, see Sulfonethylmethane		
Triphenyl Phosphate, 450 lb bbls	.45	
Tripoli, 500 lb bbls	2.50	3.00
Tungsten NY	7.50	8.00
UREA, pharm 112 lb cases	.40	
VANILLIN, USP, 400 oz cans	.43	.45
Cans, 80 oz	.45	
Cans, 16 oz	.46	
Vermilion, Amer. 100 lb kegs	.35	
English, kegs	1.30	
Veratrine Sulfate, 1 oz vial	2.50	
Hydrochloride, 1 oz vial	2.50	
WHITE LEAD, see lead, white		
White Precipitate, see mercury		
Whiting, 200 lb bags, c/l wks ton	18.00	
Bags, 1/ci wks	20.00	
Gilders, bags	13.50	15.00
French, bags, NY	18.00	
English, bags, NY	23.00	
Witch Hazel Extract, 50 gal bbls gal	1.20	1.25

## XYLENE, 2° dist range, nitration

ths wks	.45	
110 gal drs wks	.50	
5° dist range, 8000 gal tanks	.40	
wks	.45	
110 gal drs wks	.45	
Xylidine, 900 lb drs	.42	.43
YARA YARA, 1 lb tins	2.00	2.80
Yohimbin Hydchlide, 1 oz vial	11.50	
ZINC, METAL, high grade, slabs		
c/l NY	8.25	
Common Slabs, c/l NY	7.40	7.45
Mossy, 25 lb bxs NY	.15	
Ammonium Chloride, soln, 400 lb		
bbls		
Carb. tech, 150 lb kegs NY	.14	.18
USP, 100 lb kegs	.30	
Chloride, fused, 600 lb drs wks	.67	
Drs, c/l wks	.05½	
Imp. drs NY	.06	.06½
Granulated, 500 lb bbls wks	.08	.09
Imported, drs, NY	.06	.06½
USP, 25 lb jars	.20	
Cyanide, 100 lb drs	.42	.43
Dust, 100 lb tins wks	.09	.11
500 lb bbls, kegs, 1c/l wks	.09½	.09½
500 lb bbls, kegs, c/l wks	.08½	.09
Iodide, 5 lb bolls	5.00	
Nitrate, 25 lb jars	.35	
Oxide, Amer. 300 lb bbls wks	.07½	.08
Bbls c/l wks	.07½	
French, 300 lb bbls wks	.09½	.11½
Bbl c/l wks	.09	.09½
Bags, c/l wks	.08½	.09
Imported, white seal, bbls	.12½	
Green seal, bbls	.10	
USP, 100 lb bbls	.15	.17
Stearate, USP, 60 lb bbls	.19½	.21
Sulfate, 400 lb bbls wks	.03½	.03½
Bbls c/l wks	.02	.02½
USP, 100 lb kegs	.08	.09
Sulfocarbonate, 100 lb kegs	.40	.42

# NITRATE SODA

DOUBLE REFINED CRYSTALS  
GRANULATED OR POWDERED



**BATTELLE & RENWICK**

Estb. 1840

Incp. 1902

80 Maiden Lane, New York, N. Y.



**Super-Filtchar**  
(Decolorizing and Deodorizing Carbon)

**FULLERS EARTH  
CHARCOAL**

**Alcohol**  
(Ethyl and Denatured)

**PRECIPITATED CHALK  
WHITING**

**INDUSTRIAL CHEMICAL CO.**

200 Fifth Avenue, New York City

Tel: Gramercy 3242

## Oils and Fertilizers

## Oils

Castor, No. 1 400 lb bbls.....	.12%	.12%
80 lb cases.....	.13%	.14
No. 3, bbls.....	.11%	.12
China Wood, bbls, spot NY.....	..	.15
5000 gal. tks. NY.....	..	.14%
Jan. Feb. forward, tanks, NY.....	..	..
Mar.-Apr. forward, tanks, NY.....	..	.14%
Coast, tanks, Apr. forward.....	.13	.13%
Coconut Ceylon, 375 lb bbls. NY.....	.09	.09%
8000 gal. tanks, NY.....	.08	.08%
Cochin, 375 lb bbls, NY.....	.10	.10%
Tanks, NY.....	..	.09
Manila, tanks Coast.....	..	.08
Edible, bbls, NY.....	.10%	.11
Cod Newfoundland 50 gal. bbls. gal	.61	.62
Tanks, NY.....	.59	.61
Cora, bags.....	.05	.05%
Cora, ref. 375 lb bbls. NY.....	..	.13%
Crude, tanks mills.....	.09%	.10
Bbls, NY.....	.10%	.11
COTTONSEED, crude tks, mills.....	..	.09%
P. S. Y. 100 bbl. lots NY.....	.10%	.11%
White, 100 bbl. lots NY.....	..	.13
Winter yellow, 100 bbls. NY.....	..	.13%
Degras, Amer. 50 gal. bbls. NY.....	..	.04%
English, bbls, NY.....	.04%	.05
Neutral, bbls, NY.....	.10	.11
Grease, choice white bbls, NY.....	..	.09%
Yellow.....	.07%	.07%
Brown.....	.06%	.07
Horse.....	.06%	.07
Bone naphtha.....	.06	.06%
Herring, Tanks, Coast.....	..	..
Horse, 375 lb bbls, NY.....	..	..
Lard, prime steam bbls.....	..	.14%
Compound, bbls.....	..	.12%
LARD OIL, Edible prime, bbls.....	.15	.16
Off prime, bbls.....	..	.14
Extra, bbls.....	..	.13%
Extra No. 1, bbls.....	..	.13
No. 1 bbls.....	..	.12%
No. 2 bbls.....	..	.11%

LINSEED, raw c/l bbls spot.....	gal	..	.87
Five bbls., raw.....	gal	..	.90
Bolled, 5 bbl. lots.....	gal	..	.92
Double bolled 5 bbl. lots.....	gal	..	.93
Raw, Jan. c/l bbls.....	gal	..	.87
Feb.-Apr., c/l bbls.....	gal	.86	.84
Imported, bbls, NY.....	gal	..	.85
Imp. shipment, duty paid bbls.....	gal	..	.82
Menhaden, crude bbls. wks.....	gal	..	.52
Crude, tanks wks Balt.....	gal	..	.50
Light strained, tanks.....	gal	.59	.60
Light strained, bbls, NY.....	gal	.65	.67
Yellow bleached, bbls, NY.....	gal	.68	.70
Blown, bbls, NY.....	gal	.74	.76
Neatsfoot, 20° c.t. bbls. NY.....	lb	.18%	.20
30° cold test, bbls, NY.....	lb	.15%	.15%
Prime, bbls, NY.....	lb	..	.13
Oleo Oil, No. 1, bbls NY.....	lb	.13%	.13%
No. 2, bbls, NY.....	lb	.10%	.10%
No. 3, bbls, NY.....	lb	.09%	.09%
OLIVE, denatured bbls. NY.....	gal	1.15	1.17
Edible, bbls, NY.....	gal	1.80	2.20
Foots, bbls, NY.....	lb	.09%	.09%
Shipment, duty paid.....	lb	.08%	.08%
Palm Lagos, 1500 lb casks.....	lb	.08%	.08%
Niger, casks.....	lb	.07%	.07%
Bonny old Calabar, casks.....	lb	.07	.07%
Palm Kernel, 1500 lb casks NY.....	lb	.08%	.09
Peanut, refined bbls, NY.....	lb	.15%	.16
Crude, mills buyers' tks.....	lb	.14%	.14%
Crude, bbls, NY.....	lb	.12%	.13
Perilla, bbls, NY.....	lb	..	..
Shipment, c.i.f. NY bbls.....	lb	.13%	.14
Shipment, c.i.f. NY c/s.....	lb	.13%	.14
Poppyseed, bbls, NY.....	gal	..	2.50
Rapeseed, refined bbls, NY.....	gal	.85	.86
Blown, bbls, NY.....	gal	.95	.98
Red Oil, distilled bbls.....	lb	..	.11
Saponified, bbls.....	lb	..	.11
Salmon, 8000 gal. tks. Coast.....	gal	..	.46
Sesame, domestic edible bbls.....	gal	..	1.25
Sod Oil, bbls, NY.....	gal	..	.45

SOYA BEAN, crude tks. Coast.....	lb	.09	.09%
Crude, bulk c.i.f. NY in bond.....	lb	.07	.07%
Crude, bulk c.i.f. PC in bond.....	lb	.06%	.07
Crude, bbls, NY.....	lb	.11%	.12
Refined, bbls, NY.....	lb	..	.12%
Amer. pressed, ord. bbls, NY.....	lb	.11	.11%
Sperm, 38° c. t. blechd. bbls, NY.....	gal	..	1.05
45° cold test, blechd. bbls, NY.....	gal	..	1.03
STEARIC ACID, s. p. 200 lb bags.....	lb	..	.11%
Double pressed, bgs.....	lb	..	.12
Double pressed, bgs, saponified.....	lb	..	.12%
Triple pressed, bgs., distilled.....	lb	..	.13%
Triple pressed, bgs., saponified.....	lb	..	.14
Stearine, oleo, bbls.....	lb	.10%	.10%
Lard, bbls.....	lb	..	.12%
Tallow, edible, tierces.....	lb	..	.10
City extra, loose.....	lb	.09	.09%
Tallow Oil, acidless tks, NY.....	lb	..	.11%
Bbls, c/l NY.....	lb	..	.12%
Teaseed, crude bbls, NY.....	lb	.12%	.12%
Walnut, crude bbls, NY.....	lb	.11%	.12
Whale, nat. winter bbls, NY.....	gal	..	.70
Bleed, winter bbls, NY.....	gal	..	.75
Crude, No. 1, tanks Coast.....	lb	..	..
Crude, No. 2, tanks Coast.....	lb	..	.06%
Crude No. 3, tanks Coast.....	lb	..	..

## Fertilizer Materials

Ammon. Sulf. bulk wks.....	100 lb	..	3.20
Double bgs. f.a.s. NY.....	100 lb	..	3.55
Blood, dried f.o.b. NY.....	unit	..	4.85
Bone, 2 & 50 ground raw.....	ton	25.00	30.00
Raw, Chicago.....	ton	..	25.00
Cyanamide wks.....	unit	..	2.25
Fish Scrap, dried wks.....	unit	5.25 &	.10
NITRATE SODA, NY.....	100 lb	..	2.60
Phosphate Rock, f.o.b. mines.....	ton	3.00	5.50
Florida pebble, 68-75%.....	ton	3.00	3.25
Tennessee, 70-75%.....	ton	3.00	3.25
Phosphate Acid, 16% wks.....	ton	..	10.00
Potassium Murate, 80%.....	unit	..	.70
Sulfate Bone Meal, NY.....	ton	25.00	30.00
Steamed Bone Meal, NY.....	ton	..	.95
Tankage, ground NY.....	unit	4.65 &	.10
High grade, f.o.b. Chicago.....	unit	4.65 &	.10

THE FAR EAST  
CALLS

Manufacturers of Drugs, Chemicals or Proprietary Articles who realize the value of foreign trade will answer the call without delay, and encourage enquiries from India, Ceylon, Burma, Siam, China, etc., by using regularly the advertising pages of **The Indian and Eastern Druggist**, the only trade paper catering exclusively for the East. Specimen copies and advertising rates from

KINNEY &amp; MURRAY

25 Church St., New York City

HEADQUARTERS for  
CACODYLATESIron  
Mercury  
Sodium

Our imported cacodylates are of the highest quality, purity and uniformity and have met with the favor of the leading manufacturing consumers whose requirements are most rigid.

Samples of Fougere Cacodylates  
will be gladly submitted on request

E. FOUGERA & CO., Inc.  
90-92 Beekman Street New York, N. Y.

## Tannins and Dyestuffs

## Naval Stores

(Carloads ex-yard N. Y.)

Spirits Turpentine, bbls.....gal	1.54
Wood Turpentine, stm. distd. bbls.gal	1.47
Destructive distilled, bbls.....gal	1.36
Pitch, prime.....bbl	6.50
Rosins. (Sold in 600 lb bbls., gross for net, quotations based on a unit of 250 lb)	
B.....280 lb	6.15
D.....280 lb	6.25
E.....280 lb	6.25
F.....280 lb	6.25
G.....280 lb	6.25
H.....280 lb	6.25
I.....280 lb	6.25
K.....280 lb	6.30
M.....280 lb	6.75
N.....280 lb	7.10
WG.....280 lb	7.50
WW.....280 lb	8.00
Rosin Oil, first run 50 gal. bbls.gal	.43
Second run, bbls.....gal	.47
Tar, mln-burnt.....bbl	12.50
Retort.....bbl	12.00

## Woods

Barwood, chips.....lb	.04½ : .05
Camwood, chips.....lb	.09 : .13
Diri Diri, pods 100-200 lb bags.ton	32.00 : 34.00
Fustic, sticks.....ton	35.00 : 37.00
Chips.....lb	.04 : .08
Hemlock, bark.....ton	16.00 : 18.00
Hyperic, chips.....lb	.08½ : .07
LOGWOOD, sticks.....ton	30.00
Chips 150 lb bags.....lb	.02½ : .03
Mangrove bark, African.....ton	35.00
Bark, South American.....ton	25.00 : 30.00

Myrabolans, 150 lb bags J1.....ton	28.00
B1.....ton	24.00
R2.....ton	17.00
Nutgalls, see Crude Drugs.	
Oak bark, whole.....ton	20.00 : 23.00
Ground.....ton	25.00
Quercitron bark, rough.....ton	10.00
Ground.....ton	20.00 : 25.00
Sumac, Sicily, 160 lb bags.....ton	55.00 : 58.00
Virginia, 150 lb bags.....ton	35.00
Valonia Cups, 25-33% tan.....ton	31.00 : 35.00
Beard, 40% tan, 150 lb bgs.ton	48.00 : 50.00
Wattle bark, 150 lb bags.....ton	38.00 : 40.00

## Extracts

Range of prices includes quality range for large quantity.

Annatto, fine.....lb	.26 : .29
Archil, double 600 lb bbls.....lb	.16 : .18
Triple, 600 lb bbls.....lb	.17 : .19
Cont., 600 lb bbls.....lb	.18 : .20
Chestnut, clarified, 25% tks. wks.ton	.01½ : .01¾
Powd., 60% 100 lb bbls. wks. lb	.05½ : .05¾
Decolorized, bbls. wks.....lb	.09 : .09½
Cudbear, English.....lb	.21 : .23
Cutch, Rangoon, 100 lb bales.....lb	.13 : .16
Liquid, 450 lb bbls.....lb	.10 : .11
Tablets, 120 lb boxes.....lb	.13 : .14
Flavine.....lb	.90 : .95
Fustic, solid 50 lb boxes.....lb	.14 : .18
Crystals, 100 lb boxes.....lb	.22 : .24
Liquid, 51%, 600 lb bbls.....lb	.10 : .14
Gal extract.....lb	.18 : .19
Gambler, 25% liq. 450 lb bbls. lb	.08½ : .07
Common, 200 lb cases.....lb	.05½ : .05¾
Singapore cubes, 150 lb bags. lb	.07 : .07½
HEMATINE, Paste, 500 lb bbls. lb	.11½ : .13½
Crystals, 400 lb bbls.....lb	.16 : .20
Hemlock, 25% 600 lb bbls. wks. lb	.04 : .04½
Hyperic, 51%, 600 lb bbls.....lb	.15 : .20
Indigo, Madras bbls.....lb	.85 : .90
Manila, bbls.....lb	1.30

Larch, 25%, 600 lb bbls., wks. lb	.03½ : .03¾
Powd. 100 lb bags, wks.....lb	.07½ : .08
Logwood, 51%, 450 lb bbls.....lb	.08 : .10
Solid, 50 lb boxes.....lb	.15 : .21
Madder, Dutch.....lb	.28 : .30
Mangrove, 55% 400 lb bbls.....lb	.05½ : .05¾
Myrabolans, 25% liquid bbls.....lb	.05 : .05½
50% solid, 50 lb boxes.....lb	.06½ : .06¾
Oak, tanks wks.....lb	.04½ : .04¾
23-25% liq. 600 lb bbls. wks. lb	.05 : .05½
Osage Orange, 50% liquid.....lb	.07 : .08
Powd. 100 lbs bags.....lb	.15 : .16
Persian Berries.....lb	.27 : .30
QUEBRACHO, 35% liquid tks. lb	.03½ : .04
450 lb bbls.....lb	.04½ : .04¾
35% bleaching, 450 lb bbls.....lb	.04½ : .05½
Solid 65% 100 lb bales.....lb	.04½ : .05
Clarified bales.....lb	.05½ : .05¾
Quercitron, 51% 450 lb bbls.....lb	.08 : .07
Powdered 100 lb boxes.....lb	.09 : .13
Spruce, 25% liquid tanks wks. lb	.01 : .01½
Powd. 50% 100 lb bags wks. lb	.02 : .02½
Sumac, liquid 450 lb bbls.....lb	.07 : .09

## DYE'S' SUNDRIES

Albumen, technical, egg 200 lb cs. lb	.80
Blood, domestic, 100 lb drs. lb	.35
British Gum, 140 lb bags c/l 100 lb	3.39
Bags lc/l.....100 lb	3.67
Dextrin, corn 140 lb bags c/l 100 lb	3.09
Bags lc/l.....100 lb	3.37
Potato 140 lb bags c/l.....100 lb	.09
Bags lc/l.....100 lb	.09½ : .09¾
Prussian blue.....lb	.60 : .62
Sago Flour, 150 lb bags.....lb	.03½ : .03¾
Spray Yolk 150 lb cs.....lb	.35 : .45
STARCH, powd. 140 lb bgs.c/l 100 lb	2.47
Bags lc/l.....100 lb	2.75
Pearl, 140 lb bags c/l.....100 lb	2.37 : 2.65
Potato, domestic, 140 lb bags. lb	.05½ : .05¾
Imported, bags duty paid. lb	.06½ : .07
Taploca Flour, high grade bags. lb	.05 : .05½
Medium grade, bags.....lb	.03½ : .04
Low grade, bags.....lb	.03 : .03½
Turkey Red Oil, bbls.....lb	.09 : .11
Yolk Oil, bbls.....lb	...

THE  
NEW BRUNSWICK CHEMICAL CO.

Sales Office and Factory,  
85-105 Doremus Avenue, Newark, N. J.

Oils  Waxes  
Compounds

Essential to Dyeing, Finishing and Sizing

TRY  
TERPOL HYDRATE

For Penetration, Thin Boiling  
Smoothness and Elasticity on  
Cotton Warps and Yarns

WHERE STARCH IS USED  
Write for Information

Southern Dyestuffs  
Company

STANDARDIZED  INTERMEDIATES

Executive Offices

25 West 43rd Street  
Telephone, Murray Hill 0528

Plant, Nitro, W. Va.

BETA NAPHTHOL  
(Technical)

ALPHA NAPHTHOL

Selling Agents

W. S. GRAY & CO.  
342 Madison Ave., New York City  
PRESCOTT & COMPANY  
Montreal, Canada



## Crude Drugs

## Crude Drugs

Accroides Gum, yel., .....	.18	: .20
ACONITE Leaves, bales.....	.16	: .17
Aconite Root, USP, bags.....	...	...
Agar Agar, 1, 200lb bales.....	1.60	: 1.65
No. 2, bales.....	...	...
No. 3, bales.....	1.45	: 1.50
Agarie, white, cases.....	...	...
Almonds, bitter bags bxs.....	.30	: .35
Sweet, bags.....	.45	: .46
Meal, tins, boxes.....	.28	: .30
Aletris Root, bags.....	.60	: .62
Alkanet Root, bags.....	.08	: .10
Aloes, Barbados, 120lb bbls.....	.70	: .75
Cape, 400lb cases.....	.07	: .07½
Curacao, 100lb cases.....	.06	: .06½
Socotrine, whole 100lb cs.....	.30	: .32
Althea Root, cut cases.....	.13	: .14
Whole bags.....	.09	: .10
Ambergris, black boxes.....	...	: 8.00
Grey, boxes.....	...	: 28.00
Ammoniac, tears, bags.....	1.35	: 1.40
Angelica Root, dom. bags.....	.14	: .15
Angelica Bark, bags.....	.14	: .15
Anise, Levant bags.....	.17	: .17½
Star, cases.....	.15	: .16
Spanish, bags.....	.25	: .27
Anatto Seed, bags.....	.05	: .05½
ARABIC GUM, 200lb cases.....	.25	: .27
Seconda, 250lb bags.....	.20	: .22
Sorta, amber, 200lb bags, bbls.....	.19	: .20
Powd., USP, 300lb bbls.....	.21	: .23
Areca Nuts, 150lb bags.....	.09	: .10
Powd., 200lb bbls.....	.12	: .14
Arnica Flowers, bales.....	.13	: .14
Root, bags.....	.20	: .30
Arrowroot, Amer. powd. bbls.....	.05½	: .06
St. Vincent, powd. bbls.....	.10½	: .11
Asafetida, USP, 250lb cases.....	.32	: .35
Powd., 50lb bxs.....	.60	: .65
BALM GILEAD BUDS, bags.....	.43	: .45
Balmory Herb, bales.....	.14	: .15


Bamboo Brier Root, bags.....	.06	: .07
Barberry Bark, tree bales.....	.22	: .24
Bayberry Bark, bales.....	.11	: .12
Wax, bbls.....	.28	: .30
Belladonna Leaves, bales.....	.17	: .18
Root, bags.....	.13	: .14
Bees Wax, white bbls.....	.37	: .38
Yellow, refined bbls.....	.23	: .26
Crude, bags.....	.20	: .22
Benzoin Gum, Siam, boxes.....	1.00	: 1.10
Sumatra, 80lb boxes.....	.38	: .40
Berberis Aquifolium Root, bags.....	.16	: .17
Beth Root, bags.....	.18	: .20
Blackhaw Bark, root, bales.....	.35	: .40
Tree, bales.....	.16	: .18
Blood Root, bags.....	.13	: .15
Blueflag Root, bags.....	.23	: .25
Boneset Herb, bales.....	.08	: .10
Borage Flowers, bales.....	.28	: .30
Bryonia Root, bags.....	.10	: .11
BUCHU LEAVES, short, 250lb		
bales.....	...	: 1.15
Less bales.....	1.17	: 1.20
Long, bales.....	...	...
Buckthorn Bark, bales.....	.07½	: .08
Burdock Root, bags.....	...	: .27
Burgundy Pitch, dom. 110lb stands		
Gross for net.....	...	: .05
Calabar Beans, bags.....	.13	: .14
Calamus Root, bleached cases.....	.40	: .42
Unbleached, bags.....	.07½	: .08
Calendula Petals, imp. bales.....	...	: .40
Callisaya Bark, bales.....	.12	: .14
Camphor, see Chemicals		
Canary Seed, Morocco bags.....	.06	: .06½
South American, bags.....	.04½	: .04%
Candella Wax, bags.....	...	: .35
Canella Alba Bark, bales.....	.45	: .47
Cannabis, true imp. bags.....	...	: 5.75
American (no assay) bales.....	...	: .90
USP, bales.....	2.00	: 2.10
Cantharides, Chinese cases.....	...	: 1.10
Powd., boxes.....	1.30	: 1.35

Cantharides, Russian, cases.....	2.00	: 2.10
Powdered, boxes.....	2.25	: 2.30
Caraway Seed, African bags.....	...	: ...
Dutch, 100lb bags.....	.30	: .31
Cardamom bleached cases.....	.90	: 1.15
Decorticated, cases.....	.65	: .69
Green, grinding, bags.....	.75	: .77
Carnauba Wax, Flor. bags.....	.45	: .48
No. 1 N Country bags.....	.40	: .43
No. 2 N Country bags.....	.23	: .25
No. 3 Fatty Gray, bags.....	.20	: .21
No. 3 Chalky, bags.....	.16½	: .17
Cascara Amarga, 150lb bales.....	.30	: .32
Cascara Sagrada, bales.....	.13½	: .14
Cascarilla Bark, quills bales.....	.30	: .35
Siftings, bbls.....	.20	: .25
Cassia Buds, 66lb cases.....	.13	: .14
China, select, mats cases.....	.06	: .08
Saigon, assort. bales.....	.25	: .25½
Cassia Fistula, baskets.....	.10	: .11
Castor Beans, bags.....	.03	: .03½
Castoreum, 1lb bot.....	...	: 4.00
Catechu Gum, bags.....	.09	: .10
Catnip Herb, bales.....	.12	: .15
Celery Seed, 220lb bags.....	.23½	: .24
Ceresin Wax, white bags.....	.08½	: .09
Yellow, 200lb bags.....	.07½	: .08½
CHAMOMILE FLOWERS, Roman		
bales.....	1.30	: 1.40
Hung. cases bales.....	.18	: .19
Charcoal Willow, powd. bbls.....	.06	: .07
Wood, powd. bbls.....	.04	: .05
Chestnut Bark, bags.....	.07	: .08
Herb, bales.....	.06	: .06½
Chicle Gum, bags.....	.80	: .90
Chiffetia, bales.....	.13	: .14
Cinchona Bark, red quills bales.....	.50	: .55
Broken, bales.....	.12	: .13
Cinnamon, Ceylon, bales, bond.....	.16	: .21
Civet, Abyssin horns.....	2.75	: 2.85
Clover Tops, bags.....	.10	: .12
Cloves, Zanzibar, 135lb bales.....	.23	: .24
Amboyas, bales.....	...	: ...
Penang, bales.....	...	: ...

TRI-DI- SODIUM PHOSPHATE  
LIQUID PHOSPHORIC ACID PASTE  
Get our Prices  
**BOWKER**  
CHEMICAL COMPANY  
49 CHAMBERS STREET NEW YORK

**SULPHATE OF COPPER**  
:: 98/99% GUARANTEED. ::  
Manufactured by the old established firm:—  
**McKECHNIE BROS., LTD.,**  
WIDNES, :: :: ENGLAND.  
Cables - - McKechnie, Widnes.  
Codes - - A B C 5th and Bentleys.

**Coal Tar Disinfectants**  
Phenol coefficients 2 to 20. Rideal-Walker Test. Produce white emulsion free from deposit. Phenol coefficients guaranteed.  
**BAIRD & MCGUIRE, Inc.**  
Holbrook, Mass. P. O. Box 473  
New York Representative  
JAYNE & SIDEBOTTOM, INC. 17 Battery Place

**Merchants Chem. Co.**  
Incorporated  
7 So. Dearborn St., Chicago  
Milwaukee Minneapolis  
High Grade  
  
Chemicals

## Crude Drugs

Cochineal, USP boxes.....	.40	: .45	Dogwood Bark, Jamaica bags....	.10	: .11	Grindella Robusta Herb, bales...b	.09	: .10
Coca Leaves, Huancu bags.....	..	: ..	Flowers, bales.....	..	: .15	Guaiac Gum, 800 lb cases.....b	.48	: .50
Truxillo, bags.....	.40	: .45	Doggrass Root, USP cut bags....	.12	: .14	Guarana, tins, cases.....b	.70	: .90
Cocosh Root, Black bags.....b	.08	: .08½	Dragons Blood, mass cases.....b	.60	: .62	Gum, see Arabic Gum, etc.		
Blue, bags.....	.09	: .09½	Reeds, boxes.....	..	: 2.50	HELLEBORE ROOT,		
Colchicum Root, bags.....b	.11	: .09	ECHINACEA ROOT, bags.....b	.33	: .34	Black, pwd. bbls.....b	..	: .14
Seed, bags.....	.11	: .12	Elecampane Root, bags.....b	.09	: .10	White, bags.....b	.12	: .14
Colombo Root, whole bags.....b	.03	: .04	Elder Flowers, bales.....b	.20	: .22	Powdered, 250 lb bbls.....b	.16	: .17
Colocynth, apples, cases, bbls....	.19	: .25	Elemi Gum, 89 lb cases.....b	.10	: .12	Helonias Root, (unicorn false)		
Pulp, USP bales.....b	.40	: .45	Elm, select, 5 lb bundles cases..b	.25	: .23	bags.....b	.60	: .62
Coltsfoot Leaves, bags.....b	.08	: .07	Grinding, bags.....b	.10	: .12	Hemp Seed, Manchurian bags...b	.03½	: .04½
Comfrey Root, bags.....b	.13	: .14	Powdered, bbls.....b	.14	: .15	Chilian, bags.....b	..	: ..
Condurango Bark, bales.....b	.07½	: .08	ERGOT, 150-200 lb bags.....b	.62	: .65	Henbane Leaves, bales.....b	.40	: .42
Conium Seeds, bags.....b	..	: .16	Eucalyptus Leaves, bales.....b	..	: .05	Henna Leaves, bales.....b	.21	: .22
Copaiba Balsam Para 80 lb casesb	.24	: .25	Euphorbia Pilulifera Herb, bags..b	.17	: .20	Powdered.....b	.23	: .24
S. Amer. 80 lb cases.....b	.28½	: .30	Euphorbium Gum, cases.....b	..	: .35	Hope, Calif. 120 lb cases.....b	.11	: .12
Copal Gum.....b	.12	: .15	Powdered, boxes.....b	..	: .40	Hope, N. Y. prime bales.....b	.22	: .23
Coriander Seed, Bombay bags...b	..	: ..	Fennel Seed, French bags.....b	.17	: .18	Pacific Coast prime bales.....b	.18	: .20
Morocco, bags.....b	.12½	: .13	German, bags.....b	..	: .28	Horehound Herb, bales.....b	..	: .11
Bleached, bags.....b	.15	: .15½	Flax Seed, whole 180 lb bbls.....es	12.00	: 12.25	Horsetail Rush, bags.....b	..	: .15
Corn Silk, bales.....b	.05	: .05½	Ground, 180 lb bbls.....b	.06½	: .07	INDIA GUM, see Karaya		
Cotton Root Bark, bales.....b	.13	: .14	Foenugreek Seed, 200 lb bags...b	.07	: .07½	Insect Flowers, open whole bales.b	..	: ..
Cramp Bark, so-called bales....b	..	: .08	Fir Balsam, Canada cans.....gal	10.75	: 11.00	Closed whole, bales.....b	..	: ..
True, bags.....b	..	: .40	Oregon, bbls. cans.....gal	1.65	: 1.85	Powdered, pure 200 lb bbls....b	.70	: .75
Craneshill Root, bags.....b	.10	: .11	Fish Berries, 100-125 lb bags...b	.03½	: .04	Flowers and stems, 50 p. c.		
CUBE BERRIES, XX bags.....b	.82½	: .83	Fringe Tree Bark, bags.....b	.17	: .18	200 lb bbls.....b	.40	: .42
Powdered, boxes.....b	.85	: .87½	GALANGAL ROOT, bags.....b	.06	: .07	Ipecac Root Cartagena bags....b	..	: 1.50
Cumin Seed, Levant bags.....b	..	: ..	Gambier Gum, bags.....b	.10½	: .11	Powdered, 200 lb bbls. boxes.b	1.70	: 1.75
Morocco, bags.....b	.32	: .35	Galbanum Gum, cans.....b	1.20	: 1.35	Rio Whole, bags.....b	..	: 1.50
Culvers Root, bags.....b	..	: .75	Gamboge Gum, 160 lb cases...b	1.15	: 1.20	Powdered, 200 lb bbls. boxes.b	1.70	: 1.75
Cuttlefish Bone, Trieste, straps..b	.19	: .20	Gelsemium Root, bags.....b	.11	: .12	Isinglass, American, 130 lb cs..b	.65	: .70
Jewellers, large, straps.....b	.45	: .55	Gentian Root, bags.....b	.08	: .08½	Russian, (Beluga) bbs etc....b	..	: 10.00
Small, straps.....b	.35	: .45	Ginger, African, bags.....b	.10½	: .11	JABORANDI LEAVES, bales....b	.25	: .26
French, straps.....b	.19	: .20	Jamaica, grinding, bags bbls...b	.33	: .41	Jalap Root, whole 150 lb bags..b	.34	: .35
Powdered, boxes.....b	..	: .14	Japan, bags.....b	.12½	: .13	Powdered, USP 250 lb bbls....b	.40	: .42
Broken, boxes.....b	.07	: .08	Cochin, ABC & lemon, bags...b	.12½	: .13	Japan Wax, 224 lb cases.....b	.14½	: .15
Damar Gum, 136 lb cases.....b	.32	: .34	Ginseng Root, cultivated, bags...b	7.50	: 10.00	Job's Tears, white bags.....b	.05	: .09
Damiana Leaves, bales.....b	.11	: .13	Northwestern Wild, bags.....b	12.00	: 15.00	Juniper Berries, 125 lb bags...b	.03	: .03½
Dandelion Root, Imp., bags.....b	.09½	: .10	Southern Wild, bags.....b	9.00	: 11.00	KAMALA, boxes.....b	2.75	: 3.00
Deer Tongue Leaves, bales.....b	.07½	: .08	Golden Seal Root, bags.....b	3.20	: 3.25	Kava Kava Root, bags.....b	.17	: .18
Digitalis Leaves, bales.....b	.06½	: .08	Powdered, boxes.....b	3.55	: 3.65	Kino Gum, black cases.....b	.50	: .55
Dill Seed, bags.....b	.09½	: .10	Grains of Paradise, bags.....b	.12	: .14	Kola Nuts, 150 lb bags.....b	.04½	: .05
						Kouso Flowers, bags.....b	2.25	: 2.50

QUALITY SERVICE

**B.G. FEINBERG**

111-WATER STREET  
NEW YORK CITY

**BROMIDES**

POTASH SODA

BARIUM NITRATE  
PERMANGANATE OF POTASH  
CARBON TETRACHLORIDE

TRUTH VALUE

We offer for PROMPT delivery

**QUICKSILVER**  
(IN ORIGINAL BOTTLES)

ALL MERCURIAL SALTS  
AMMONIUM PERSULPHATE 98% PURE  
ROCHELLE SALTS  
STRYCHNINE  
FINE CHEMICALS, etc.

**MAY & BAKER, L<sup>TD</sup>.**

Manufacturing Chemists and Exporters  
BATTERSEA, LONDON ENGLAND

Cable Address: BISMUTH, LONDON

**Cresylic Acid**  
Pale and Dark

**SHINGLE OILS**  
Genuine Distilled

**CREOSOTE OILS**

Jordan Coal Tar Products Co.  
(Incorporated)  
13 Cliff Street, New York  
Telephone Beekman 1758

Refined Nitrate of Soda  
Copper Sulphate  
Flake and Ball Naphthalene  
(Contracts)  
Caustic Potash 88-92%

**ALEX. C. FERGUSON, JR.**  
450 CHESTNUT ST. PHILADELPHIA

## Crude Drugs

LADY SLIPPER ROOT, bags....lb	.60	: .62	Musk, pods Cabardine tins.....cs	16.00	: 17.00	Patchouli Leaves, bales.....lb	.22	: .25
Larkspur Seed, bags.....lb	.39	: .41	Tonquin.....cs	22.00	: 25.00	Pepper, black Sing, bags.....lb	.09%	: .10
Laurel Leaves, bales.....lb	.04%	: .05	Grain Cab.....cs	25.00	: 26.00	White, bags.....lb	.13	: .13%
Lavender Flowers, Ordinary....lb	.25	: .32	Tonquin.....cs	35.00	: 38.00	Peppers, red Mombasa bags.....lb	.30	: .31
Selected.....lb	.35	: .37	Synthetic, see Chemicals.....			Cherries, bags.....lb	.16%	: .17
Leeches, tubs.....Per 100	7.00	: 7.50	Musk Root, Russian bags.....lb	...	: ...	Bombay, bags.....lb	.15	: .15%
Lemon Peel, bags.....lb	.09	: .10	Mustard Seed, Bari brown bags..lb	.07%	: .08	Japan, bags.....lb	.35	: .36
Licorice Root, Russian whole....lb	.08	: .08%	Bombay, brown.....lb	.06%	: .07	Pennyroyal Herb, bales.....lb	.08	: .14
Spanish, natural bales.....lb	.07%	: .08	California, brown.....lb	.07%	: .08	Peppermint Leaves, imp. bales..lb	...	: .35
Powdered, bbls.....lb	.09	: .10	Yellow.....lb	...	: .08	Domestic leaf.....lb	.27	: .29
Selected, 2 & 5 lb bundles..lb	.17%	: .22	Chinese, yellow.....lb	.04	: .04%	Peru Balsam, 120 lb cases.....lb	...	: 2.25
Cuttings, 125 lb bags.....lb	.07%	: .08	English, yellow.....lb	.08	: .09	Pichi Leaves, bags.....lb	.20	: .23
Life Everlasting Herb, bales....lb	.05	: .06	Dutch, yellow.....lb	.08	: .08%	Pimento, select bags.....lb	.04%	: .04%
Lime Juice, clarified bbls.....gal	.50	: .60	Danish, yellow.....lb	.07%	: .09	Pink Root, true bags.....lb	...	: 1.25
Linden Flowers, with leaves, baleslb	.25	: .26	Myrrh Gum, select 200 lb cs...lb	.50	: .55	Pitch, Burgundy, see Burgundy Pitch		
Without Leaves, bales.....lb	.45	: .46	Sorts, cases.....lb	.45	: .48	Pleurisy Root, bags.....lb	.22	: .23
Liverwort Leaves, bales.....lb	.30	: .32	NUTGALLS, Chinese bags.....lb	.15	: .16	Plantain Leaves, bales.....lb	...	: .15
Lobelia Herb, bales.....lb	...	: .15	Allopy, bags.....lb	.14	: .15	Poke Berries, bags.....lb	...	: .15
Lobelia Seed, bags.....lb	.55	: .60	Nutmegs, 110s cases.....lb	.21	: .22%	Poke Root, bags.....lb	.07	: .07%
Loragae Root, Imported, bags....lb	.18	: .20	75s 80s cases.....lb	.25	: .25%	Pomegranate Bark, of root bags..lb	...	: .30
Lupulin, boxes.....lb	...	: 1.50	Nux Vomica Buttons, bags.....lb	.07	: .07%	Of tree.....lb	...	: .30
Domestic.....lb	1.30	: 1.40	Powdered, 200 lb bbls.....lb	.11	: .11%	Poppy Flowers, red bags.....lb	.30	: .35
Lycopodium, 88 lb cs.....lb	.48	: .50	OAK BARK, red bags.....lb	.05	: .06	Poppy Seed, Dutch bags.....lb	.14%	: .14%
MACE, Siam, No. 1 cases.....lb	.41%	: .42	White, bags.....lb	.05	: .06	German, bags.....lb	.11%	: .12
Banda, No. 1 cases.....lb	.43	: .44	Olbanum Gum, sift 280 lb cases..lb	.10%	: .11	Turkish, bags.....lb	.06	: .08
Batavia, cases.....lb	.33	: .36	Tears, 280 lb cases.....lb	.14%	: .15	Blue Indian, bags.....lb	.08	: .08%
Malva Flowers, blue bales.....lb	.30	: .33	No. 1, all white, 280 lb cases.....lb	.24	: .30	White Indian, bags.....lb	.07	: .07%
Black, bales.....lb	.95	: 1.00	Opium, gum USP cases.....lb	...	: 6.75	Prickly Ash Bark Southern, bags..lb	.14	: .14%
Manna, large flake cases.....lb	.58	: .60	Granular, cans.....lb	...	: 7.75	Northern, bags.....lb	.14	: .14%
Small flake, cases.....lb	.35	: .36	Powdered, USP cans.....lb	...	: 7.75	Prickly Ash Berries, bags.....lb	.11	: .13
Sorts, cases.....lb	.33	: .35	Orange Flowers, cases.....lb	...	: 1.00	Prince's Pine, bales.....lb	.14	: .15
Mandrake Root, bags.....lb	.17	: .18	Orange Peel, bitter bags.....lb	.06	: .06%	Pulsatilla Herb, bags.....lb	.37	: .40
Mastic Gum, 120 lb cases.....lb	.45	: .48	Sweet, bags.....lb	.06%	: .07	Pumpkin Seed, bags.....lb	.09	: .12
Mexerone Bark, bags.....lb	.11	: .12	Orris Root Florentine bold bags..lb	.07	: .08	QUASSIA CHIPS, bags.....lb	.07%	: .08
Matteo Leaves, bales.....lb	.18	: .20	Verona, bags.....lb	.05	: .06	Queen of the Meadow Herb, bags..lb	.06	: .06%
Marjoram Leaves, German bales..lb	.22%	: .23%	Powdered, 200 lb bbls.....lb	.08	: .10	Quince Seed, bags.....lb	1.60	: 1.65
French, bales.....lb	.14	: .15	Fingers, cases.....lb	.70	: .75	RAPE SEED, South Amer. bags..lb	.06%	: .07%
Millet Seed, dom. yellow bags...lb	.03%	: .05	Ozokerite Wax, brown hard bags..lb	.22	: .24	Dutch, bags.....lb	.08%	: .08%
Montan, Wax, crude bags.....lb	.04%	: .05	Green, hard bags.....lb	.25	: .26	Japanese, small, bags.....lb	.06%	: .07%
Bleached.....lb	...	: ...	Refined, yellow bags.....lb	...	: ...	Raspberries, dried boxes.....lb	.35	: .40
Moss, Iceland bales.....lb	.08	: .09	PAPRIKA, bags.....lb	.16	: .24	Red Saunders.....lb	.17	: .19
Irish, bleached bales.....lb	.07	: .09	Hungarian.....lb	.27	: .28	Rhatany Root, bags.....lb	.10	: .11
Mullein Flowers, tins.....lb	.55	: .60	Pareira Brava Root, bags.....lb	.19	: .20	RHUBARB, H. D. cases.....lb	.45	: .46
			Parsley Seed, bags.....lb	.08%	: .09	Powdered, 200 lb bbls.....lb	.50	: .52
						Rosemary Leaves, bales.....lb	.04	: .05



**Saccharin**

**Rhodia Chemical Co.**

WORKS - NEW BRUNSWICK NEW JERSEY

OFFICE - 89 FULTON STREET NEW YORK

## Arthur Stallman &amp; Co.

282 Pearl Street, New York City

"CRUDE DRUG HEADQUARTERS"

A-C-S Brand

## INSECT POWDER

A Product That Will Produce The Results For Which It Is Intended

Senna Leaves Lavender Flowers

Write For Our Price List

Chicago Office - 189 N. Clark St.

## Waxes

Since '73

M.L. BARRETT &amp; CO. Merchants

Essential Oils Fine Chemicals Synthetics Colors

233 WEST LAKE STREET - CHICAGO, ILL.

Established 1873

Cables: Lazerno

## PROPIONIC ETHER

(Absolute)

## BUTYL PROPIONATE

(Absolute)

## BUTYRIC ETHER

(Absolute)

Samples and quotations on request

GUASTI-FINCH CHEMICAL COMPANY  
Manufacturers

East 26th Street

Los Angeles, California

## Crude Drugs

Rosemary Flowers, cases bales...D	.28 : .30	Snake Root, Canada natural bags..D	.32 : .33	Tragacanth Gum, No. 1, ribbon,		
Rose Petals, pale .....	.22 : .25	Stripped, bags .....	.48 : .50	200lb cs. ....D	1.80 : 1.85	
Red .....	.. : .60	SOAP BARK, whole, 150-200lb		No. 2 to No. 6, cases ....D	1.00 : 1.50	
Rue Herb, bales .....	.30 : .35	bales .....	.06½ : .07	Powdered, 50lb boxes.....D	1.00 : 1.50	
SABADILLA SEED, bags.....D	.10 : .12	Cut, 125-175lb bags.....D	.07½ : .08	Turkish, cases .....	.75 : .90	
Powder, bbls. ....D	.13 : .14	Crushed, 200lb bbls.....D	.08½ : .09	Turnerite Root, Madras bags.....D	.07 : .07½	
Saffron Flowers, Amer. bales.....D	1.40 : 1.45	Powdered, 200lb bbls.....D	.13 : .14	Aleppy, bags .....	.06½ : .06¾	
Valencia, 1lb cases.....D	35.00 : 36.00	Spearmint Leaves, American bales..D	.23 : .24	China, bags .....	.05½ : .06	
Sage, Dalmatian bales.....D	.05½ : .06½	Spermaceti, blocks cakes cases...D	.36 : .37	Turpentine, Venice, true 80lb cs..D	.22 : .25	
Greek, bales .....	.03½ : .04	Spikenard Root, bags.....D	.15 : .16	Artificial, 80lb cases.....D	.11 : .12	
Spanish, bales .....	.03 : .04	Spruce Gum, boxes.....D	1.00 : 1.50	Spirits, see Naval Stores		
Sandalwood, chips bags.....D	.. : .35	Squaw Vine, bales .....	.16 : .17	UNICORN ROOT, false, see Helonias		
Ground, bags .....	.. : .40	Squill Root, white bags.....D	.04 : .04½	True, see Aletris		
Sandarac Gum, 300lb bbls.....D	.23 : .25	Stavesacre Seed, bags.....D	.28 : .29	Uva Ursi Leaves, bales.....D	.05½ : .06	
Sarsaparilla, Honduras bales.....D	.49 : .50	Stillingia Root, bags.....D	.09 : .09½	VALERIAN ROOT, Belgian bags..D	.13 : .14	
Mexican, bales .....	.22 : .23	Stone Root, bags.....D	.09 : .10	Cuts, cases .....	7.00 : 7.25	
Sassafras Bark, ordinary bales...D	.10 : .14	Storax, liquid artif.....D	.70 : .75	Bourbon, cases .....	2.75 : 3.25	
Select, bales .....	.20 : .22	Gen. USP .....	.90 : 1.00	South American, cases.....D	7.00 : 7.25	
Savory Leaves, bales.....D	.09½ : .10	St. Ignatius Beans, bags.....D	.22 : .23	Tahiti, yellow label cases.....D	1.80 : 2.00	
Saw Palmetto Berries, bags.....D	.12 : .13	St. John's Bread, bags.....D	.04 : .06	Green Label cases.....D	1.80 : 2.00	
Scammony Resin, boxes.....D	1.00 : 1.10	Stramonium Leaves, bales.....D	.06½ : .07	Violet Flowers, bags.....D	.65 : .70	
Scammony Root, bags.....D	.06 : .07	Stramonium Seed, bags.....D	.12 : .13	WAHOO BARK, of root bags.....D	1.10 : 1.15	
Senega Root, bags.....D	.75 : .80	Strophanthus Seed, Hispidus...D	.. : .35	Of Tree, bags .....	.30 : .32	
SENNA, Alex, 150lb cases.....D	.30 : .32	Kombe, bags .....	.30 : .35	White Pine Bark, rosed, bags...D	.06 : .07	
Half Leaf, 350lb bales.....D	.14 : .17	Sunflower Seed, domestic bags...D	.07 : .07½	White Poplar Bark, bags.....D	.04 : .05	
Siftings, 400lb bales.....D	.09 : .09½	South American, bags.....D	.07 : .07½	Wild Cherry Bark, thin green		
Powdered, 200lb bbls.....D	.12 : .13	TAGALDER BARK, bags.....D	.05 : .05½	Rosed, bales .....	.10 : .12	
Tinnevely, job. 350lb bales..D	.10 : .14	Tamarinds, bbls. ....D	.04½ : .04¾	Thick Rosed, bales.....D	.07 : .07½	
Grinding, 350lb bales.....D	.05 : .08	Kegs .....	3.25 : 3.50	Thin Natural, bales.....D	.08 : .08½	
Pods, 350lb bales.....D	.06½ : .07½	Tansy Herb, bales .....	.14 : .15	Thick Natural, bales.....D	.04½ : .05	
Powdered, 200lb bbls.....D	.05 : .06	Tar, Barbadoes, 50 gal. bbls. gal	1.60 : 1.75	Willow, bark bags.....D	.. : .06	
Serpentaria Root, bags.....D	.85 : .90	Thus Gum, 280lb bbls.....D	.04½ : .06	White, bags .....	.. : .15	
Shellac, T.N., bags.....D	.77 : .78	Thyme, Spanish bales.....D	.. : .08	Witch Hazel Bark, bags.....D	.. : .06	
Superfine Orange, bags.....D	.82 : .84	French, bales .....	.11 : .12	Witch Hazel Leaves, bales.....D	.. : .07½	
D. C., bags .....	.. : 1.00	Tillia . See Linden		Worm Seed, American bags.....D	.08½ : .09	
V. S. O., cases.....D	.. : 1.00	Tolu Balsam, 90lb cases.....D	.75 : .80	Levant bags .....	3.25 : 3.50	
Pwd. reg., 350lb bbls.....D	.85 : .90	Tonga Bark, bags.....D	.30 : .31	Wormwood Herb, imported bales..D	.. : .09	
Regular Bleached, 350lb bbls..D	.75 : .80	Tonka Beans, Angostura cases...D	2.15 : 2.25	Yacca Gum, red.....D	.04 : .04½	
Bone Dry, 350lb bbls.....D	.90 : .92	Para, cases .....	.80 : .85	Ground .....	.05½ : .06¾	
Simaruba Bark, bales.....D	.11 : .12	Surinam, cases .....	.85 : .95	YELLOW DOCK ROOT, bags.....D	.13 : .15	
Sideritis Herb, cut bags.....D	.. : .22			Yellow Parilla Root, bags.....D	.16 : .17	
Smilac Leaves, bales .....	.. : .38			Yerba Santa, bags.....D	.10 : .11	
Sloe Berries, bags.....D	.63 : .64			Zedoary Root, bags.....D	.10 : .11	

"Our Quality is Always Higher Than Our Price"

## Terpeneless Oil of Limes

The employment of a terpeneless Lime Oil from which the malodorous and sharp-tasting terpenes have been removed permits the attainment of an unusually smooth lime flavor in candies, soft drinks, etc.

We offer an Oil of Limes which is COMPLETELY TERPENELESS, of high solubility and possessed of a smooth delicate flavor which will be a revelation to those not familiar with its use.

### UNGERER & COMPANY

124 West 19th Street, New York  
Tel. Watkins 2914-2915

## CHIRIS Essential Oils and Synthetic Aromatic Chemicals

PARIS



LONDON

Established in Grasse, France, 1768

### Antoine Chiris Company

147-153 WAVERLY PLACE, NEW YORK, N. Y.

American Works, Delawanna, N.J.

Canadian Office—489 St. Paul Street, West, Montreal.





## Aromatic Chemicals

## NATURAL DERIVATIVES

Anethol, 2 lb bot.....	D	1.60	: 2.00
Borneol, 1 lb bot.....	D	...	: 3.50
Citronellal, 1 lb bot.....	D	2.00	: 2.25
CITRAL, 25 lb cans.....	D	2.75	: 3.00
EUCALYPTOL, USP, 25 lb cans.....	D	.80	: .85
Eugenol, USP, 25 lb cans.....	D	3.50	: 3.75
Geraniol, Domestic, 50 lb cans.....	D	2.75	: 3.25
Imported, 5 lb bot.....	D	3.25	: 3.75
Iso-Eugenol, 1 lb bot.....	D	4.25	: 4.50
Linalool, 5 lb bot.....	D	4.50	: 4.75
MENTHOL, 60 lb cases.....	D	...	: 9.75
Less cases, 5 lb cans.....	D	...	: 10.00
Rhodinol, 1 lb bot.....	D	15.00	: 16.00
SAFROL, 60 lb cans.....	D	.55	: .60
Thymol, USP, 10 lb cans.....	D	4.00	: 4.25

## SYNTHETIC AROMATICS

Acetaldehyde, 50% sol pure, 5 lb bot. D	1.75	: 2.00
Acetophenone CP, 1 lb bot.....	D	4.00 : 4.25
Amyl Acetate, pure, 5 gal cans. gal	5.00	: 6.00
Amyl Butyrate, 1 lb bot.....	D	2.00 : 2.10
Amyl Formate, 1 lb bot.....	D	1.75 : 2.00
AMYL SALICYLATE, 100 lb chys. D	1.45	: 1.60
Anisic Aldehyde, 1 lb bot.....	D	4.00 : 4.50
BENZALDEHYDE, USP, 40 lb chys D	1.40	: 1.50
FFC, 40 lb chys.....	D	1.70 : 1.80
Benzoic Ether, See Ethyl Benzoate		
Benzyl Acetate, 100 lb chys.....	D	1.50 : 1.65
Benzyl Alcohol, 5 lb bot.....	D	1.25 : 1.50
BENZYL BENZOATE, 5 lb bot.....	D	1.85 : 2.00
Medicinal FFC.....	D	2.10 : 2.20
Benzyl Formate, 1 lb bot.....	D	2.50 : 3.00
Bromistrol, 25 lb kegs.....	D	4.00 : 4.25

Butyric Ether, See Ethyl Butyrate

Cinnamic Acid, 5 lb cans.....	D	2.75	: 3.00
Cinnamic Alcohol, liquid 1 lb bot. D	15.00	: 16.00	
Crystallizable.....	D	20.00	: 21.00
Cinnamic Aldehyde, 1 lb bot.....	D	3.75	: 4.00
CITRONELLOL, 1 lb bot.....	D	8.00	: 12.00
COUNARIN, 25 lb cans.....	D	4.00	: 4.25
DIETHYL PHTHALATE, 25 lb cans D	.85	: .90	
Diphenyl oxide, 25 lb tins.....	D	.85	: .90
Ethyl Acetate, pure, 5 lb bot.....	D	.45	: .50
Ethyl Benzoate, 5 lb bot.....	D	1.85	: 2.00
Ethyl Butyrate, 5 lb bot.....	D	2.00	: 2.25
Ethyl Cinnamate, 1 lb bot.....	D	5.50	: 5.75
Ethyl Formate, 5 lb bot.....	D	.95	: 1.00
Ethyl Valerate, 5 lb bot.....	D	4.50	: 4.75
Formic Ether, See Ethyl Formate			
Geranyl Acetate, 1 lb bot.....	D	5.00	: 5.25
Heliotropin, 10 lb bot.....	D	2.50	: 2.75
Indol, CP, 1 oz. bot.....	oz	8.50	: 9.00
Ionone, 1 lb bot.....	D	5.50	: 8.00
Linalyl Acetate, 1 lb bot.....	D	6.00	: 8.75
Linalyl Benzoate, 1 lb bot.....	D	13.00	: 14.00
METHYL ANTHRANILATE, 1 lb bot. D	4.00	: 4.50	
Methyl Cinnamate, 1 lb bot.....	D	4.50	: 5.00
Methyl Paraeresol, 1 lb bot.....	D	8.00	: 9.00
METHYL SALICYLATE, USP 500 lb			
drums.....	D	..	: .55
50 lb cases.....	D	..	: .57
Second Hands.....	D	.50	: .52
Mirbane, rect. 1000 lb drums.....	D	12 1/2	: .14
Musk Ambrette, 1 lb cans.....	D	15.00	: 16.00
Musk Ketone, 1 lb cans.....	D	14.00	: 14.50
Musk Xylene, 5 lb cans.....	D	3.25	: 3.50
Nerolin, 1 lb cans.....	D	1.75	: 2.00
Phenylacetaldehyde, CP, 1 lb bot. D	9.00	: 11.00	
50 p.p.....	D	4.00	: 6.00
Phenylacetic Acid, 1 lb bot.....	D	3.00	: 4.00
PHENYLETHYLALCOHOL dom.,			
1 lb bot.....	D	7.00	: 9.00
Imported.....	D	..	: 12.50
Phenylpropylalcohol, 1 lb bot.....	D	15.00	: 16.00

TERPINEOL, CP, 1000 lb drums. D	.50	: .60
Cans 50 lb.....	D	.55 : .60
Imported, 25 lb cans.....	D	.70 : .75
Terpinyl Acetate, 25 lb cans.....	D	1.75 : 2.00
VANILLIN, USP, 400 oz cans.....	oz	.43 : .45
Cans, 16 oz., 80 oz.....	oz	.45 : .46
Valerianic Ether, See Ethyl Valerate		
Yara Yara, 1 lb cans.....	oz	2.00 : 2.50

## PERFUMERS' SUNDRIES

Almond Meal, 25 lb cans.....	lb	.25	: .27
Ambergris, black, bxs.....	oz	...	: 8.00
Ambergris, gray, bxs.....	oz	...	: 28.00
Balsam Copaiba, Para, 80 lb cases.....	D	.24	: .25
South American, 80 lb cases.....	D	.29	: .30
Balsam Peru, 60 lb cans.....	lb	2.00	: 2.10
Balsam Tolu, 90 lb cases.....	lb	.75	: .80
Benzoin Gum, Siam, bxs.....	lb	1.40	: 1.60
Castoreum, 1 lb bot.....	lb	4.00	: 4.50
Chalk, precip. light, 175 lb bbls.....	D	.04 1/2	: .05
Cherry Laurel Water, 5 gal cans.....	gal	1.15	: 1.25
Civet Abyssin horns.....	oz	2.85	: 2.80
Labdanum, 5 lb bot.....	lb	...	: 8.00
Lanolin hydrous, 350 lb bbls.....	lb	.18	: .20
Anhydrous, 350 lb bbls.....	lb	.22	: .24
Musk pods, Cabardine, tins.....	oz	16.00	: 17.00
Tonquin, tins.....	oz	22.00	: 25.00
Grains, Cabardine, tins.....	oz	25.00	: 26.00
Tonquin, tins.....	oz	35.00	: 38.00
Synthetic, See Aromatic Chemicals			
Orris Rt Flor, powd bbls.....	lb	.09	: .10
Verona, bbls.....	lb	.09	: .10
Rice Starch, 140 lb bgs.....	lb	.09	: .10
Rose Water, 5 gal chys.....	gal	1.15	: 1.25
Sandalwood chips, powd, bags.....	lb	.35	: .40
Saponin, 5 lb tins.....	lb	1.50	: 1.75
Talc Italian, 220 lb bgs.....	ton	30.00	: 40.00
Talc French, 220 lb bags.....	ton	20.00	: 30.00
Talc, domestic ref., 100 lb bags.....	ton	20.00	: 30.00

Chlorophyll Oil Soluble  
MM&R

Full strength, grass green, oil and fat soluble, coloring for soap, soap solutions, etc. Offered in all size packages for prompt shipment. Have you received our latest attractive prices? Write for testing sample.



**MAGNUS MABEE & REYNARD, INC.**  
257 PEARL ST. NEW YORK CITY.

Diethyl Phthalate  
Gallic Acid  
Salicylic Acid

are three very different chemicals in the manufacture of which DARCO solves impurity problems. It may solve yours. Write us for a sample.

**Darco Sales Corporation**  
45 East 42nd St.  
New York, N. Y.

Phone Murray Hill 2387

"Let DARCO solve your problems"

# Imports of Chemicals, Dyestuffs, Drugs, etc.

Imports at New York, Dec. 30 to Jan. 6.

**ACIDS**—Arsenious, 97 bbls., Amer. Metal Co., Tampico; **Cresylic**, 18 drs., W. E. Jordan, Liverpool; 4 drs., Brown Bros. & Co., Liverpool; 18 drs., W. E. Jordan, Liverpool; **Formic**, 37 carboys, Amer. Exch. Nat. Bank, Hamburg; 80 csks., Equit. Trust Co., Hamburg; 148 bottles, Weisenthal & Co., Hamburg; 1 cse., Atlantic Fwdg. Co., Hamburg; 328 carboys, A. Klipstein & Co., Hamburg; **Lactic**, 84 csks., Order, Rotterdam; **Oxalic**, 30 csks., Roessler & Hasslacher Chem. Co., Hamburg; 6 csks., Meteor Prod. Co., Hamburg; 80 pkgs., Superfos Co., Hamburg; 26 csks., Meteor Prod. Co., Rotterdam; **Phosphoric**, 50 csks., Superfos Co., Bremen; **Tartaric**, 130 bbls., Equit. Trust Co., Bremen; 100 bbls., Chem. Nat. Bank, Bremen; 200 csks., W. Neuberg, Rotterdam

**ALCOHOL**—160 bbls., Esteve Co., Areibo

**ALUMINA**—Sulfate, 104 csks., R. W. Greeff & Co., Rotterdam

**AMMONIUM SALTS**—Bifluoride, 12 csks., Jungmann & Co., Hamburg; **Carbonate**, 20 csks., Jungmann & Co., Hamburg; **Nitrate**, 1 csk., A. F. Cofod & Co., London; **Sulfate**, 11 csks., Blackburn Trdg. Co., Hamburg

**ANTIMONY SALTS**—10 csks., Meteor Prod. Co., Hamburg; **Oxide**, 100 bgs., Order, Shanghai; **Sulfide**, 7 csks., F. B. Vandegrift & Co., London; **Sulfuret**, 25 csks., Order, Bordeaux

**ARGOLS**—201 csks., C. Pfizer & Co., Rotterdam

**ARSENIC**—36 csks., Amer. Metal Co., London; 50 drs., Order, Hamburg; **Flour**, 100 csks., Globe Shpg. Co., Hamburg

**BALSAMS**—5 cs., Hamberger Polhemus Co., Cristobal; 25 cs., Ultramares Corp., Cristobal; 49 cs., P. Bertuch, Para; 60 cs., H. A. Astlett Co., Para; 53 cs., Herbst Bros., Para; 5 cs., Ultramares Corp., Acajutla

**BARIUM SALTS**—Carbonate, 77 csks., C. Hardy & Ruperty, Hamburg; 54 bbls., Innis

Speiden & Co., Hamburg; 106 csks., Order, Hamburg; **Chloride**, 28 bbls., Order, Hamburg; 15 bbls., Innis Speiden & Co., Hamburg; **Nitrate**, 51 bbls., Industrial Trust Co., Hamburg; 40 bbls., Order, Hamburg

**BARK**—5 bbls., Cohen & Co., Nassau; 1,225 bgs., Davies Turner & Co., Marseilles; 15 bgs., N. Rowland, Hamburg; 65 bbls., Goldsmith & Co., Mollendo; 1 bale, Order, Marseilles; 5 bbls., Armand Gaidan Co., Marseilles; **Cascara**, 449 bgs., Order, Vancouver; **Cinchona**, 33 bbls., Andean Tdg. Co., Guayaquil; **Quillay**, 70 bbls., W. R. Grace & Co., Valparaiso

**BARYTES**—Carbonate, 250 bgs., P. Uhlich & Co., Rotterdam; 409 csks., H. Kastor, Rotterdam; 324 csks., N. Y. Trust Co., Bremen; 100 bgs., Baer Bros., Bremen; 44 csks., Order, Bremen; 150 csks., P. Uhlich Co., Rotterdam

**BENZOL**—1 cse., Tise & Lynch, Hamburg

**BERRIES**—Cubeb, 31 bgs., A. A. Stillwell Co., Rotterdam; **Juniper**, 100 bgs., G. Segal Co., Leghorn; **Whortle**, 97 bgs., Order, Hamburg

**BLEACHING POWDER**—75 cs., H. Kohnstamm, Liverpool

**BLOOD ALBUMIN**—25 bbls., Farmers Loan & Trust Co., Hamburg

**CANTHARIDES**—2 kegs, Asia Drug Co., Hamburg

**CASEIN**—150 bgs., Mech. & Metals Nat. Bank, Bordeaux; 2,669 bgs., Order, Buenos Aires; 817 cs., Order, Auckland; 300 bgs., Order, London; 133 bgs., T. M. Duché & Sons, Bordeaux; 20 bgs., Order, Havre

**CHALK**—950 bgs., Order, Antwerp; 400 bgs., Banque Belge L'Etranger, Antwerp; 1,524 tons, J. W. Higman Co., Dunkirk; 558 tons, Taintor Tdg. Co., Dunkirk; 500 tons, Baring Bros. & Co., Dunkirk; 2 csks., Multus & Ware, Hamburg; 1 cse., Amer. Shpg. Co., Marseilles

**CINCHONIDINE**—15 cs., R. W. Greeff & Co., Rotterdam

**CINCHONINE**—10 cs., Order, Rotterdam

**COBALT CUBES**—2 cs., Pyne Kendall & Hollister, Liverpool

**COBALT SULFATE**—21 csks., Roessler & Hasslacher Chem. Co., Hamburg

**COCOA BUTTER**—234 bgs., First Nat. Bank, Hamburg; 315 bgs., Order, Hamburg

**COCOA DUST CAKES**—660 bgs., Maywood Chem. Wks., Rotterdam

**COLORS**—20 cs., H. A. Metz & Co., Rotterdam; 3 pkgs., Kuttroff Pickhardt & Co., Rotterdam; 13 csks., H. A. Metz & Co., Rotterdam; 6 csks., Bank of Manhattan Co., Rotterdam; 4 csks., Carbic Color & Chem. Co., Rotterdam; 3 bbls., Carbic Color & Chem. Co., Rotterdam; 65 csks., 4 bbls., Ciba Co., Havre; 15 csks., Reichard Coulston Co., Havre; 10 csks., H. A. Metz & Co., Rotterdam; 9 csks., Kuttroff Pickhardt & Co., Rotterdam; 6 csks., Carbic Color & Chem. Co., Rotterdam; 7 csks., Kuttroff Pickhardt & Co., Rotterdam; 4 csks., Garfield Aniline Works, Inc., Rotterdam; 5 cs., Order, Hamburg; 11 cs., H. R. Ackerman, Havre; 2 cs., Order, Havre; 1 cse., Gera Mills, Hamburg; 8 cs., Irving Nat. Bank, Genoa; 2 csks., H. A. Metz Co., Hamburg; 2 csks., Franklin Imp. & Exp. Co., Hamburg; 16 pkgs., H. R. Ackerman, Rotterdam; 9 cs., B. Bernard, Rotterdam; 3 cs., W. Van Doorn, Rotterdam; 19 csks., Sandoz Chem. Wks., Antwerp; 2 bbls., Joencke Ault Co., Liverpool; 17 csks., Order, Liverpool; 30 csks., Heller & Merz, Bremen; 2 csks., Fezandie & Sperrle, Bremen; 12 csks., Franklin Imp. Exp. Co., Hamburg; **Bronze**, 11 cs., Order, Bremen; **Bronze Powder**, 3 cs., Hensei Bruckman & Lorbacher, Hamburg

**COPPER**—Carbonate, 55 bbls., Irving Nat. Bank, Hamburg; **Sulfate**, 100 bbls., Philipp Bros., Genoa

**COPRA**—4,157 bgs., Atkins Kroll Co., Auckland; 4,833 bgs., H. W. Peabody & Co., Auckland

We Offer for  
SPOT or FORWARD  
Deliveries

White Arsenic 99%  
Formaldehyde 40° Vol.  
U.S.P.

Copper Sulphate  
98-100% Large Crystals

TELEPHONE—BARCLAY—1455

CABLE ADDRESS—METEORPROD



**METEOR**  
PRODUCTS CO. INC.



■ ■ Importers Exporters &amp; Manufacturers Agents ■ ■

■ DODGE BLDG 53 PARK PLACE NEW YORK CITY ■

*The Superfos Company, Inc.*  
25 Spruce Street New York

LITHOPONE 30%  
RED SEAL

OLIVE OIL FOOTS  
Prime Green, New Crop



**CRESOL**—1 drum, Order, Liverpool  
**CUBEB BERRIES**—56 bgs., Huth & Co.,  
 Singapore

**EPSOM SALTS**—2,600 bgs., Hansa Co., Ham-  
 burg; 500 bgs., H. J. Baker & Bro., Ham-  
 burg; 440 bgs., Superfos Co., Hamburg; 500  
 bgs., A. Klipstein & Co., Hamburg

**ERGOT**—64 bgs., Banco Anglo Sud American,  
 Rotterdam; 14 cs., Order, Lisbon; 16 bgs.,  
 J. Lopez, Rotterdam; 10 bgs., Peck & Velsor,  
 Hamburg; 4 bgs., Lehn & Fink, Hamburg;  
 20 cs., Order, Hamburg

**ETHYL CHLORIDE**—3 csks., Hensel Bruck-  
 man & Lorbacher, Hamburg; 32 cs., B. D.  
 Levy, Hamburg; 1 cse., Tice & Lynch,  
 Hamburg; 3 cs., Eimer & Amend, Hamburg

**EXTRACTS—Archil Liquor**, 23 csks., C. H.  
 Reisig, Liverpool; 9 csks., B. P. Ducas Co.,  
 Liverpool; **Myrobalans**, 299 cs., Order, Cal-  
 cutta; **Rose**, 5 bbls., G. Lueders & Co.,  
 Bordeaux

**FLOWERS**—51 bls., G. W. Sheldon & Co.,  
 Hamburg; 25 bls., Peck & Velsor, Hamburg;  
 42 bls., Anderson Hillier Co., Hamburg; 10  
 bls., Order, Marseilles; 17 bgs., Order, Mar-  
 seilles; **Chamomile**, 10 cs., Order, Hamburg;  
 5 bls., Brown Bros. & Co., London; 114  
 cs., A. Joensson & Co., Hamburg; **Elder**, 16  
 bls., Anderson Hillier Co., Hamburg; **Laven-  
 der**, 49 bls., J. L. Hopkins & Co., Marseilles;  
 32 bls., Order, Marseilles; 33 bgs., Anderson  
 Hillier & Co., Marseilles

**FLUORSPAR**—207 bgs., Roessler & Hasslacher  
 Chem Co., Hamburg

**GAMBIER**—724 cs., 220 bgs., Order, Singapore  
**GELATIN**—2 cs., J. J. Wile & Sons, Ham-  
 burg; 50 bbls., P. Putman, Antwerp; 100  
 csks., Pfaltz & Bauer, Bremen; 40 cs.,  
 P. Putman, Bremen; 20 cs., American  
 Exp. Co., Rotterdam; 66 bls., 7 bgs., E. A.  
 Rogers & Co., Marseilles; 9 pkgs., P. Put-  
 man, Hamburg; **Powdered**, 300 bgs., 98 bbls.,  
 H. A. Sinclair, Rotterdam

**GLAUBER SALT**—250 bbls., Innis Speiden &  
 Co., Hamburg; 35 csks., Order, Hamburg  
**GLYCERIN**—70 drs., Marx & Rawolle, Bor-  
 deaux; 80 csks., Order, Marseilles; 80 csks.,  
 Order, Marseilles

**GUM**—150 bgs., Caracanda Bros., Port Sudan;  
 350 bgs., Order, Port Sudan; 100 bgs., Thur-  
 ston & Braidich, Marseilles; 32 bgs., Order,  
 Marseilles; **Benzoil**, 25 cs., Order, Rotter-  
 dam; **Chicle**, 290 bls., Mexican Exploitation  
 Co., Progreso; 130 csks., Gomez Sloan, Inc.,  
 Vera Cruz; **Copal**, 394 pkts., 15 cs., Order,  
 Macassar; 230 bks., 341 bgs., Innes &  
 Co., Macassar; 170 pkgs., L. C. Gillespie  
 & Co., Singapore; 708 bks., Irving Nat.  
 Co., Samarang; 67 cs., L. C. Gillespie &  
 Co., Samarang; 2,324 bks., Order, Samarang;  
 35 cs., S. Winterbourne Co., London; **Dama-  
 r**, 100 cs., Smith & Schipper, Padang; 500 cs.,  
 Balfour Williamson Co., Batavia; 500 cs.,  
 Baring Bros. & Co., Singapore; 100 cs.,  
 Brit. Bank of W. A. Padang; **Gamboge**, 4  
 cs., Order, London; 6 cs., S. B. Penick &  
 Co., London; **Kauri**, 151 cs., Coal & Iron  
 Nat. Bank, Auckland; 30 cs., Nat. City  
 Bank, Auckland; 298 cs., Baring Bros. &  
 Co., Auckland; 300 cs., Irving Nat. Bank,  
 Auckland; 172 pgs., L. C. Gillespie Co.,  
 Auckland; 632 pgs., A. Klipstein & Co.,  
 Auckland; 527 cs., 1,723 csks., Order, Auck-  
 land; **Perillo**, 229 bls., W. Wrigley Co.,  
 Puerto Colombia

**HELIOTROPIN**—6 cs., Guaranty Trust Co.,  
 Hamburg

**HERBS—Horehound**, 36 bgs., A. Stallman,  
 Marseilles

**HEXAMETHYLENE**—27 csks., Order, Ham-  
 burg; 11 cs., Industrial Trust Co., Hamburg;  
 33 cs., Bank of Central & So. America,  
 Hamburg

**HYDROSULFITE**—100 csks., H. A. Metz &  
 Co., Rotterdam

**IODINE**—25 bbls., Nash Watjen & Bangs,  
 Iquique

**IRON—Chloride**, 56 cs., Hans Hinrichs Chem.  
 Co., Hamburg

**IRON—Oxide**, 15 csks., Reichard Coulston,  
 Inc., Liverpool; 66 csks., J. A. McNulty &  
 Co., Liverpool

**LEAD HYPOSULFITE**—10 drs., Jungmann &  
 Co., Hamburg

**LEAVES—Henbane**, 7 bls., Order, Hamburg;  
 Marjoram, 20 bls., Van Loan & Co., Ham-  
 burg; **Patchouli**, 35 bls., Brown Bros. &  
 Co., Penang; **Senna**, 28 bls., Order, Port  
 Sudan; 34 bls., Brown Bros. & Co., Suez;  
**LEECHES**—5 cs., Midwood Chem. Co., Bor-  
 deaux

**LICORICE**—34 cs., Descours Gonthon & Co.,  
 Marseilles; **Juice**, 50 cs., A. M. Leslie &  
 Co., Marseilles; **Paste**, 1 cse., H. Utard,  
 Barcelona

**LIME BORATE**—6,448 bgs., Pacific Coast  
 Borax Co., Mejillones

**LIME JUICE**—9 csks., Huth Gillespie & Co.,  
 Port Antonio; 150 cs., J. P. Smith & Co.,  
 London

**LIME TARTRATE**—96 bgs., 763 pkgs., Royal  
 Baking Powder Co., Marseilles; 594 bgs.,  
 C. Pfizer & Co., Marseilles

**LITHOPONE**—1,118 csks., Order, Rotterdam;  
 20 csks., Jungmann & Co., Hamburg

**MENTHOL**—4 cs., Far East Impgt. Co., Ham-  
 burg; 1 cse., Order, Hamburg; 20 cs., A.  
 Stallman Co., London; 17 cs., Baring Bros.,  
 Southampton

**MYROBALANS**—14,378 pkts., Order, Calcutta;  
 13,614 pkts., Order, Calcutta; 8,827 pkts.,  
 Order, Calcutta

**NAPHTHALINE**—546 bgs., L. Martin Co.,  
 Liverpool; 900 bgs., Order, Hamburg

**OILS—Colza**, 180 bgs., Order, Antwerp; **Haar-  
 lem**, 25 cs., P. H. Petry & Co., Rotterdam;  
 30 cs., Lehn & Fink, Rotterdam; **Olive**, 150  
 cs., J. Garneau & Co., Marseilles; 100 bbls.,  
 Order, Genoa; 144 bbls., Comm'l. Bank of  
 Washington, Messina; 100 bbls., J. Munroe,  
 Marseilles; 250 bbls., Irving Nat. Bank,  
 Marseilles; 375 bbls., Irving Nat. Bank,  
 Marseilles; 370 bbls., Comm'l. Nat. Bank,  
 Washington; 100 bbls., Brown Bros. & Co.,  
 Sevilla; 100 bbls., First Nat. Bank, Sevilla;  
 1,133 cs., W. A. Taylor & Co., Barcelona;  
 782 bbls., Mech. & Metals Nat. Bank, Tarrag-  
 ona; 130 cs., Fiske & Brown, Marseilles;  
**Olive Oil Foots**, 300 bbls., W. Schall & Co.,  
 Marseilles; 100 bbls., Mech. & Metals Nat.  
 Bank, Marseilles; 300 bbls., W. R. Grace &  
 Co., Marseilles; 100 bbls., Amer. Exp. Co.,  
 Marseilles; 180 bbls., J. Munroe & Co., Mar-  
 seilles; 200 bbls., 454 tons in bulk, Order,  
 Seville; **Palm**, 79 csks., Amer. Exp. Co.,  
 London; 355 drs., Niger Co., Liverpool; 29  
 csks., H. S. Head, Liverpool; 58 csks., Order,  
 Liverpool; 15 csks., Order, Liverpool; 18  
 bbls., Order, Marseilles; **Peanut**, 567 csks.,  
 Amer. Shpg. Co., Bordeaux; **Rape**, 100 bbls.,  
 Core & Herbert, Hull; **Wood**, 297 csks.,  
 Intern. Acceptance Bank, Hankow

**OILS—Essential**, 1 csks., Bernard Judae &  
 Co., Southampton; 7 bbls., 2 cs., Bernard  
 Judae & Co., Havre; 16 drs., Honeywell  
 Bros., Havana; 7 csks., Order, Hamburg;  
 1 cse., Hensel Bruckman & Lorbacher, Ham-  
 burg; 11 cs., Polaks Frutal Works, Rotter-  
 dam; 3 cans, Ungerer & Co., Marseilles;  
 9 cs., Order, Marseilles; 20 cs., S. M. Buyu-  
 kas & Co., Santander; 8 cs., Ungerer & Co.,  
 London; 24 cs., Dodge & Olcott Co., London;  
 12 cs., Fritzsche Bros., Hamburg; 12 cs.,  
 C. G. Euler, Marseilles; 2 csks., J. Man-  
 heimer, Marseilles; 5 demijohns, 6 cs., Un-  
 gerer & Co., Marseilles; 2 csks., Dodge &  
 Olcott, Marseilles; 16 cs., Fritzsche Bros.,  
 Marseilles; 10 cs., P. R. Breyer, Marseilles;  
 25 cs., Lautier Fils, Marseilles; 3 cs.,  
 Hampton, Marseilles; 25 cs., Order, Mar-  
 seilles; 7 bxs., Amer. Exp. Co., Hamburg;  
**Bergamot**, 20 cs., Order, Messina; **Birch Tar**,  
 5 bbls., Order, Hamburg; **Caluput**, 20 cs.,  
 Order, Macassar; **Caraway**, 5 cs., J. W.  
 Lyon & Co., Rotterdam; **Citronella**, 15 drs.,  
 Order, Batavia; 1 drum, Amer. Exch. Nat.  
 Bank, Colombo; 8 drs., Brown Bros. & Co.,  
 Colombo; **Fennel**, 3 cs., Order, Hamburg;  
**Geranium**, 2 csks., Goldman Sachs & Co.,  
 Marseilles; 5 cs., Davies Turner & Co.,  
 Marseilles; 1 csk., 1 can, Order, Marseilles;  
 6 csks., 6 demijohns, Davies Turner & Co.,  
 Marseilles; **Lemon**, 200 cs., Order, Messina;  
**Mustard**, 10 cs., Magnus, Mabec & Reynard,  
 Rotterdam; **Orange**, 4 cs., Park Benziger Co.,  
 Kingston; 100 cs., Order, Messina; **Patchouli**,  
 10 cs., Huth & Co., Singapore

**OPIUM**—20 cs., Order, Constantinople

**POTASSIUM SALTS**—36 bbls., Brown Bros.  
 & Co., Hamburg; 147 bbls., Innis Speiden  
 & Co., Hamburg; 158 pkgs., Order, Hamburg;  
 5 bbls., Eimer & Amend, Hamburg; **Carbon-  
 ate**, 210 csks., Order, Marseilles; **Chlorate**,  
 95 csks., Bengol Trdg. Co., Hamburg; 400  
 bbls., 195 kegs, Order, Hamburg; 1,000 bbls.,  
 Mech. & Metals Nat. Bank, Hamburg;  
**Metabisulfite**, 10 cs., Amer. Exp. Co., Ham-  
 burg; 10 kegs, Johnson & Sons, London;  
 10 csks., 22 kgs., Jungmann & Co., Ham-  
 burg; **Muriate**, 500 bgs., A. Vogel, Hamburg;  
**Nitrate**, 360 bbls., Order, Rotterdam; 102  
 bbls., Innis Speiden & Co., Hamburg; **Prus-  
 sate**, 40 bbls., Innis Speiden & Co., Ham-  
 burg; 14 bbls., J. D. Lewis, Hamburg; 19  
 csks., A. Klipstein & Co., Hamburg; 9 bbls.,  
 Nat. Bank of Commerce, Hamburg; **Sulfate**,  
 2,000 bgs., A. Vogel, Hamburg

**PYRIDIN**—18 drs., U. S. Industrial Alcohol  
 Co., London; 5 drs., L. C. Dever, London;  
 8 drs., R. W. Greeff Co., London; 1 cse.,  
 Hensel Bruckman & Lorbacher, Hamburg

**QUICKSILVER**—500 flasks, Order, Leghorn

**QUINIDINE**—10 cs., R. W. Greeff & Co.,  
 Rotterdam

**QUININE**—40 cs., R. W. Greeff & Co., Rot-  
 terdam; 8 cs., W. Van Doorn, Rotterdam

**ROCHELLE SALTS**—30 bbls., Superfos Co.,  
 Rotterdam

**ROOTS**—36 bls., Armand Gaidan Co., Mar-  
 seilles; 2 cs., W. Van Doorn & Co., Rotter-  
 dam; 33 bgs., A. Joensson & Co., Antwerp;  
 20 bgs., S. B. Penick & Co., Hamburg; 47  
 bls., Peck & Velsor, Hamburg; 47 bls., G.  
 W. Sheldon & Co., Hamburg; 143 bls., First  
 Nat. Bank, Marseilles; 11 cs., Order, Mar-  
 seilles; 1 cse., Order, Seville; **Belladonna**,  
 50 bls., Chem. Nat. Bank, Hamburg; **Broom**,  
 13 bls., N. Y. Trust Co., Vera Cruz; **Helle-  
 bore**, 20 bls., J. L. Hopkins & Co., Hamburg;  
**Licorice**, 405 bgs., J. W. Mead & Co., Ham-  
 burg; 133 bls., Order, Barcelona; 100 bgs.,  
 Order, Marseilles; 39 bgs., First Nat. Bank,  
 Catania; **Valerian**, 13 bgs., Order, Hamburg;  
**Yellow Dock**, 18 bgs., Brown Bros. & Co.,  
 London

**SAFFRON**—2 cs., Order, Barcelona

**SAL AMMONIAC**—33 bbls., Order, Hamburg;  
 33 csks., Blackburn Trdg. Co., Hamburg;  
 36 bbls., J. A. Van Brunt & Co., Hamburg;  
 46 bbls., Innis Speiden & Co., Hamburg;  
 6 bbls., Hans Hinrichs & Co., Hamburg;  
 26 csks., Roessler & Hasslacher, Chem. Co.,  
 Hamburg; 59 bbls., Order, Hamburg

**SEEDS—Caraway**, 300 bls., E. Mittenberg  
 Inc., Rotterdam; 50 bls., Downer Hunnewell  
 & Co., Rotterdam; 200 bgs., Java Amer.  
 Export Co., Rotterdam; 100 bgs., B. H. Old  
 & Co., Rotterdam; 100 bgs., French Kre-  
 me Co., Rotterdam; 98 bgs., Java Amer. Export  
 Co., Rotterdam; 300 bls., Jaburg Bros., Rot-  
 terdam; 100 bgs., Order, Hamburg; **Carda-  
 mom**, 78 cs., Amer. Exch. Nat. Bank, Col-  
 ombio; **Celery**, 21 bls., Order, Marseilles;  
**Colchicum**, 20 bgs., Order, Hamburg; 20 bgs.,  
 Order, Hamburg; 20 bgs., Order, Hamburg;  
**Coriander**, 134 bgs., Harshaw Fuller &  
 Goodwin, Marseilles; **Cumin**, 180 bgs., Order,  
 Marseilles; **Fennel**, 50 bgs., Archibald &  
 Lewis, Marseilles; 44 bls., Armand Gaidan,  
 Marseilles; **Fenugreek**, 76 bgs., Order, Bor-  
 deaux; 1 b., Agence De New York, Bor-  
 deaux; **Fescue**, 30 csks., B. S. Elliott & Co.,  
 Wellington; **Flax**, 47,066 bgs., L. Dreyfus  
 & Co., Buenos Aires; 3,560 bgs., Anglo So.  
 Amer. Bank, Buenos Aires; 1,472 bgs., Amer.  
 Exch. Nat. Bank, Buenos Aires; 35,973 bgs.,  
 L. Dreyfus & Co., Buenos Aires; 44,079  
 bgs., Order, Buenos Aires; **Mustard**, 100  
 bgs., Materne & Hess, Rotterdam; 200 bgs.,  
 Irving Nat. Bank, London; 100 bgs., Catz  
 Amer. Co., Rotterdam; 200 bgs., E. R.  
 Durkee Co., Rotterdam; 100 bgs., C. E.  
 Armstrong, Rotterdam; 300 csks., Irving Nat.  
 Bank, London; 100 csks., Order, London;  
**Poppy**, 100 bls., Ideal Trdg. Co., Rotterdam;  
 100 bgs., Archibald & Lewis Co., Rotter-  
 dam; 100 bls., Levy & Lewis, Rotterdam;  
 100 bgs., Archibald & Lewis Co., Rotter-  
 dam; 100 bgs., J. Wertheimer Sons, Rotter-  
 dam; 100 bgs., C. E. Armstrong, Rotterdam;  
 200 bgs., Starch Products Co., Rotterdam;

**SALT—**  
**SODIUM CHLORIDE**

**INTERNATIONAL SALT, Inc.**

General Offices  
 SCRANTON, PA.

New York Office  
 2 RECTOR ST.

All Kinds of Salt



175 bbls., J. Grob Co., Rotterdam; 300 bbls., C. E. Armstrong, Inc., Rotterdam; 200 bbls., Archibald & Lewis Co., Rotterdam; 200 bbls., W. Tappenbeck, Rotterdam; 200 bbls., French Krems Co., Rotterdam; 100 bbls., Order, Rotterdam; 100 bbls., J. D. Nordlinger, Rotterdam; 100 bbls., Federal Coffee Co., Rotterdam; 300 bbls., C. J. Sperco, Rotterdam; 100 bbls., C. E. Armstrong, Rotterdam; 40 bbls., Catz Amer. Co., Rotterdam; 200 bbls., Starch Products Co., Rotterdam; 300 bbls., Order, Rotterdam; 67 bbls., Order, Hamburg

**SHELLAC**—28 bbls., F. Henjes, Rotterdam; 100 bbls., Arbuthnot Latham Co., Calcutta; 100 bbls., Brit. Bank of S. A., Calcutta; 200 bbls., Irving Nat. Bank, Calcutta; 50 bbls., Mac Lac Co., Calcutta; 1,153 bbls., Order, Calcutta; 50 bbls., A. Helmroth, Hamburg; 25 chests, Marx & Rawolle, London; 265 pkgs., Order, London; 275 bbls., Order, Calcutta; 100 cs., Brown Bros. & Co., Calcutta; 187 cs., Phila. Nat. Bank, Calcutta; 40 bbls., Kasebier Chatfield Co., Hamburg; 50 bbls., Order, Hamburg; 61 bbls., Kasebier Chatfield Shellac Co., Hamburg; 10 bbls., Kasebier Chatfield Shellac Co., Hamburg; Garnet, 50 cs., A. Murphy & Co., Hamburg; 29 bbls., Irving Nat. Bank, Hamburg; 64 cs., A. Helmroth, Inc., Hamburg; 83 cs., A. Helmroth, Inc., Hamburg; Orange, 79 bbls., A. Helmroth, Inc., Hamburg

**SODIUM SALTS**—Caustic, 320 drs., A. Klipstein & Co., Hamburg; Chlorate, 100 csks., Order, Barcelona; 300 csks., C. W. Campbell, Hamburg; Chloride, 100 demijohns, Meteor Prod. Co., Marseilles; 100 bbls., Jungmann & Co., Hamburg; Cyanide, 25 cs., Nat. City Bank, Marseilles; Cyanure, 52 cs., Order, Havre; 280 cs., Asia Bkg. Corp., Havre; Fluoride, 50 csks., Order, Hamburg; Nitrate, 5,502 bbls., W. R. Grace & Co., Hamburg; 3,432 bbls., W. R. Grace & Co., Iquique; 28 bbls., Klipstein & Co., Hamburg; 40 csks., Nat. City Bank, Rotterdam; Perborate, 61 drs., Chem. Nat. Bank, Hamburg; Prussiate, 11 csks., Brown Bros. & Co., Rotterdam; 22 csks., H. J. Baker & Bro., Liverpool; 19 csks., Bernard Schall & Co., Liverpool; 9 csks., Brown Bros. & Co., Liverpool; 19 csks., Order, Liverpool; 39 csks., Order, London; Silicate, 334 csks., Superfos Co., Hamburg; 210 bbls., Jungmann & Co., Hamburg; Sulfide, 278 drs., A. Klipstein & Co., Hamburg; Sulphhydrate, 74 drs., C. S. Grant & Co., Hamburg

**STARCH**—20 drs., Zinkeisen & Co., Bremer

**STRONTIUM**—Nitrate, 33 bbls., Innis Speiden & Co., Rotterdam; 37 csks., Chem. Nat. Bank, Rotterdam; 22 bbls., Order, Hamburg

**TALC**—1,300 bbls., Salomon Bros., Bordeaux; 1,600 bbls., Ital. Disc. & Trust Co., Genoa; 500 bbls., C. Mathias, Genoa

**TAPIOCA**—Dust, 885 bbls., Handels V. G. Amsterdam, Sourabaya; Flour, 8194 bbls., Handels V. G. Amsterdam, Sourabaya; 753 bbls., Chatham & Phoenix Nat. Bank, Singapore; 8,433 bbls., H. V. G. Amsterdam, Sourabaya; Pearl, 1,518 bbls., Handels V. G. Amsterdam, Sourabaya; 1,535 bbls., Handels V. G. Singapore; 255 bbls., Irving Nat. Bank, London

**TARTAR**—510 bbls., Amer. Exp. Co., Bordeaux; 1,325 bbls., Harshaw Fuller & Goodwin, Barcelona; 49 bbls., C. Pfizer & Co., Barcelona; 201 bbls., Harshaw Fuller & Goodwin, Alicante; 95 csks., C. Pfizer & Co., Valparaiso; 423 bbls., Harshaw Fuller & Goodwin, Marseilles; 109 bbls., Royal Baking Powder Co., Marseilles; 110 bbls., C. Pfizer & Co., Marseilles; 177 bbls., Harshaw Fuller & Goodwin, Marseilles; 250 bbls., C. Pfizer & Co., Tarragona; Cream, 50 csks., W. Neuberger, Rotterdam; 100 csks., French Amer. Bkg. Co., Marseilles

**VANILLA BEANS**—103 cs., Order, Samarang; 37 cs., Order, Hamburg; 88 cs., Dodge & Olcott, Marseilles; 19 cs., Amer. Exp. Co., Marseilles; 95 cs., J. Manheimer, Marseilles; 65 cs., Thurston & Braidich, Marseilles; 20 cs., Irving Nat. Bank, Marseilles; 102 cs., Order, Marseilles

**ZINC**—Chloride, 16 drs., Jungmann & Co., Hamburg; Oxide, 100 bbls., Bankers Trust Co., Marseilles; White, 25 csks., P. Uhlich & Co., Rotterdam

## TRADE BOARD CANNOT DELVE INTO COSTS

Washington, Jan. 10.—In an important decision in the Claire Furnace Co. case, in which twenty-two independent iron and steel companies are involved, the Circuit Court of Appeals of the District of Columbia held that the Federal Trade Commission has no right to inquire into manufacturing costs of iron and steel. The case is of far-reaching importance in connection with the power of the commission to obtain information.

The issues involved are similar to those of the Maynard Coal Co. case, in which coal operators two years ago obtained an injunction in the District of Columbia Supreme Court restraining the commission from requiring them to furnish monthly costs of production.

The Tariff Commission is sending a questionnaire to dye and chemical producers of the country by means of which the annual census of dye and synthetic organic chemical production is to be taken. It will probably be three months before the preliminary report of this census becomes available. An extended feature of the census this year will be a complete table of dye exports and imports of all countries in the world which keep such tabulation. Another important addition to the census will be a complete list of domestic colors and their foreign prototypes. Efforts to solve the problem of collection and distribution of reparation dyes by the United States Government will be deferred until conditions in Europe are more settled, according to official reports.

The Tariff Board has been granted an appropriation of \$700,000 for the fiscal year beginning July 1, by the House Appropriations Committee. The Federal Trade Commission appropriation was increased to \$955,000 and the Interstate Commerce Commission appropriation was cut to \$4,564,500.

The Oak Drug Co., Buffalo, N. Y., filed a petition in bankruptcy last week. Assets were listed as \$19,935 as against liabilities of \$42,477.

The plant owned by the Republic Creosoting Co., 736 Miley ave., Indianapolis, Ind., was damaged by fire last week. Loss \$6,000.

## SAN FRANCISCO GETS CRESYLIC ACID

Imports at San Francisco for the week ending Dec. 30 included the following: On the steamer President Wilson, from Manila, to the International Banking Corp. 8,915 sacks copra, to the Tubbs Cordage Co. 96 sacks maguey; from Hongkong, to H. M. Newhall & Co. 100 bales cinnamon. On the motorship Missourian, from Glasgow, to Theo. H. Davies & Co., Ltd., 20 drums glue; from London, to Theo. Davies & Co., Ltd., 20 cases Epsom salts; from Hamburg, to E. H. Otto & Co. 45 barrels Epsom salts and 25 barrels sal ammoniac, and to order 2,540 bags organic nitre. On the steamer Mongolian Prince, from Newcastle, to order 15 drums cresylic acid; from Antwerp, to Bank of Italy 95 bales copal gum, to order 4,000 bags whiting and 1,260 bags fertilizer. On the steamer Taiyo Maru, from Hongkong, to H. M. Newhall & Co. 100 cases Saigon casia.

## PHARMACEUTICAL EXPORTS \$1,000,000

(Special to DRUG & CHEMICAL MARKETS)

Washington, D. C., Jan. 10.—The exports of quinine sulfate in October amounted to 10,401 ounces valued at \$6,737; exports of serums and vaccines were valued at \$28,987; exports of roots, herbs and bark amounted to 249,330 pounds valued at \$63,994.

Pharmaceutical preparations other than morphine, caffeine, and strychnine were valued at \$1,166,312. Exports to England were valued at \$312,000; to Cuba \$117,749; to Canada \$106,000; to Mexico \$75,853; to Colombia \$65,677; to British India \$42,096; to Australia \$66,000; to Brazil \$38,000; to Argentina \$34,000.

The new tariff, placing a duty of 26 cents a pound on quicksilver, and the recent substantial increases in price, are causing renewed interest in quicksilver mining in California, and the development of deposits which have not been worked for some time is under way. A recently organized company known as the Consolidated Exploration and Development Co., of which Frank S. Golden, of San Francisco, is president, has taken over the Wideawake mine in Colusa and Lake counties. This property consists of 2,100 acres and there are more than 80,000 tons of ore blocked out in the mine, with a six months' mill run on the dumps.

# Wants & Offers

Rate—All classifications, \$1.00 an issue for 20 words or less, additional words, 5c each, per issue.

Payment—Must accompany order, add 10c if replies are to be forwarded.

Address "Wants & Offers"

DRUG & CHEMICAL MARKETS  
3 Park Place, New York.

## BUSINESS OPPORTUNITIES

**FOR LEASE OR SALE**—Chemical factory in New Jersey, situated 20 miles from New York; in city of 50,000. Twelve buildings in excellent condition, aggregating 26,000 square feet of ground floor space on one and one quarter acres of property with railroad siding. Ample supply of male and female labor at favorable rates. Will lease part of property if desired. Inquire of R. S. Bicknell, 140 Nassau St. Telephone, Beckman 9544.

**WANTED** energetic Agents for the sale of Bronze Powder Colors and Aluminum Powder Colors. Thoroughly acquainted with the business and well introduced with the customers. Address Box 275, DRUG & CHEMICAL MARKETS.

**FACTORY FOR SALE**: Two acres of ground, four buildings, Artesian well, located eight miles from Jersey City. Railroad siding up to property line. Price \$4,000.00. Very easy terms. Box 271, DRUG & CHEMICAL MARKETS.

**TO MANUFACTURERS OF HEAVY CHEMICALS**: An established firm with good clients and good references requires representations for Argentine, Brazil & Uruguay. Caustic soda, soda ash, rosin, turpentine, etc., etc. Apply to Marsden & Co., Florida 470, Buenos Aires.

**FOR RENT**—Fine, light office, over 400 square feet, modern office building, downtown; \$1,000 per year. Charles B. Chrystal Co., Inc., 11 Cliff St., New York City.

## HELP WANTED

**WANTED** exceptionally well trained young chemist, with good school record, to take charge of laboratory in moderate size manufacturing plant in Buffalo, N. Y. Work is of an organic nature with control standards employing physical and colloidal chemistry. Must be energetic, serious-minded and highly systematic. Working conditions are pleasant and a good future is offered. Reply to 276, DRUG & CHEMICAL MARKETS, stating salary expected, age, height, weight, previous experience, degree, school obtained, references. All correspondence treated confidential.

**WANTED**—Registered drug men who are desirous of making connections with a growing chain of stores who have some exceptional opportunities. Box 265, DRUG & CHEMICAL MARKETS.

**WANTED**—CHEMIST OR OPERATOR EXPERIENCED IN THE MANUFACTURE OF PHOSPHORUS TRICHLORIDE AND OXYCHLORIDE. In answering please write fully your experience and state salary desired. Here is a good opportunity for right party. A. B. 283, DRUG & CHEMICAL MARKETS.

**SALESMAN**, for southern textile and fertilizer trade, heavy and fine chemicals, fertilizer materials. Rare opportunity for advancement. New southern firm. Box 267, DRUG & CHEMICAL MARKETS.

## HELP WANTED

**SALESMAN** to sell a line of lacquers, enamels and celluloid colors. Give references. Address Box 284, DRUG & CHEMICAL MARKETS.

**SALESMAN** traveling, who knows the essential oil, baker supply, and bottling trade. Must know these lines thoroughly. Answer stating age, experience, and other particulars. Box 270, DRUG & CHEMICAL MARKETS.

**WANTED** by large industrial corporation organic research chemist with M.A. or Ph.D. degree. No practical experience required. Box 285, DRUG & CHEMICAL MARKETS.

**WELL-KNOWN** concern manufacturing and selling sizing and finishing compounds, will engage one or two men experienced in this line, preferably those having some mill acquaintance. Address your reply to Room 1007, 7 East 42nd Street, New York.

## SITUATIONS WANTED

**ORGANIC CHEMIST**, with wide experience along pharmaceutical and biological products, cosmetic preparations, fine organic chemicals, as operator and research chemist, desires a position of responsibility. Box 268, DRUG & CHEMICAL MARKETS.

**CHEMICAL ENGINEER**, 10 years American & European experience; executive with knowledge of business methods, explosives, heavy chemicals, dye intermediates. Address Box 281, DRUG & CHEMICAL MARKETS.

**WANTED**  
**Odd and Surplus Lots**  
*Chemicals, Dyes, Drugs,  
Oils, Gums*  
**We Purchase Outright**  
**Dye, Drug & Chemical Co.**  
105 JOHN STREET, NEW YORK  
Beekman 7563

**STERLING BRAND**  
**BORAX**  
AND  
**BORACIC ACID**  
Fifteen years on the Market  
and never a complaint  
**THORKILDSEN-MATHER COMPANY**  
HARRIS TRUST BUILDING  
CHICAGO, U.S.A.

**ACIDS**  
**Muriatic Mixed**  
**Sulphuric**  
**CONTACT PROCESS CO.**  
BUFFALO, N. Y.

**STEEL TANKS**  
1500  
New and slightly used steel tanks  
in all sizes and kinds. Pressure  
tanks, mixing tanks, storage tanks,  
pump tanks, heating tanks, etc.  
Write for Bulletin No. 7, giving  
sizes and descriptions.  
**NASHVILLE INDUSTRIAL CORP.**  
Jacksonville, Tennessee

# Wants and Offers—The Marketplace of the - - Drug and Chemical Industries

## SITUATIONS WANTED

FLAVORING EXTRACT CHEMIST, with extensive experience along Soda Water, Bakery, Household extracts, emulsions, and allied products, seeks connection with progressive firm. Box 264, DRUG & CHEMICAL MARKETS.

SITUATION wanted by progressive and thoroughly trained wholesale drug man 38 years of age willing to go anywhere. Box 273, DRUG & CHEMICAL MARKETS.

POSITION wanted by an experienced wholesale drug man—13 years experience. Box 266, DRUG & CHEMICAL MARKETS.

CHEMIST, with research, plant, and analytical experience open for engagement in any of above capacities. Box 277, DRUG & CHEMICAL MARKETS.

## DRUGS AND CHEMICALS

FOR SALE: 250 liters of imported Neon Gas, U. S. Custom Sealed, in steel cylinder, for \$5.00 per liter. No charge for cylinder. Contains 75% Neon, 24% Helion, 1% Foreign Gas. Box 268, DRUG & CHEMICAL MARKETS.

OFFER, tank car lots Mixed Acid—79% Sulfuric, 24% Nitric. Cars only. Box 280, DRUG & CHEMICAL MARKETS.

OFFER wanted for 20% Arseno Pyrite Ore carload lots F.O.B. Los Angeles, Calif. Wagner, Henkels & Daue, Liberty Trust Bldg., Phila., Pa.

## DRUGS AND CHEMICALS

OFFER quantity of Zinc Yellow, approximately 5,000 pounds. Submit offer to Box 274, DRUG & CHEMICAL MARKETS.

OFFER great quantities Spike Oil, Rosemary Oil, Uva-Ursi Leaves, Aniseed and other Spanish articles. Escribano Sons Company, Murcia, Spain.

FOR SALE: Calcium Sulphite (CaSO<sub>3</sub>) in barrels, prime, 10c lb., Calcium Borate, barrels, 10c lb. Parex Mfg. Co., 30 Church St., N. Y. C.

WANTED: odd and surplus lots of chemicals, dyes, drugs, intermediates, oils, gums, etc. Dye Drug and Chemical Co., 105 John St., N. Y. City, Beekman 7563.

FOR SALE: Methyl Violet Base, 1,000 lbs.—75c per lb. Spirit Nigrosene, Blue Shade, 1,400 lbs., 35c per lb., both in stock, New York. Box No. 282, DRUG & CHEMICAL MARKETS.

LUBRICANTS. CASTORBLEND OILS. Pure Vegetable Castor Oil blended with high grade petroleum lubricants combines their advantageous qualities. For sale by Castor Oil Products Co., P. O. Box 758, Houston, Texas.

## PLANT EQUIPMENT

WANT, No. 1 Meade Mill or similar type. State condition and price. Box No. 278, DRUG & CHEMICAL MARKETS.

## PLANT EQUIPMENT

FOR SALE: 1—12 in. Ross Disintegrator Jacketed Pebble mills, 2 Phase motors and laboratory apparatus. Box No. 279, DRUG & CHEMICAL MARKETS.

WANTED, enameled pot 100-125 gallons with or without jacket; also several iron drums with removable head. Franken, Chatham, New Jersey.

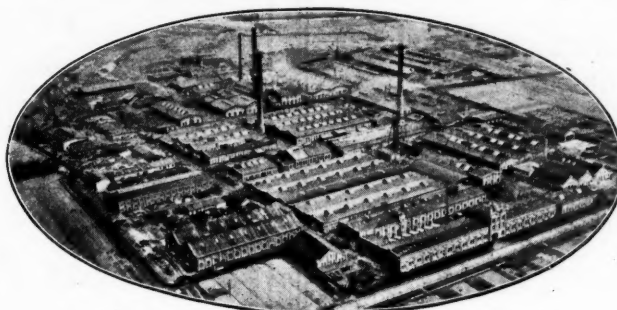
WANTED: an Emulsifier, about 25 gallon capacity. State full particulars and price, also maker's name. A. A. P. Corp., 57 New Chambers St., N. Y. City.

WANTED: Single effect Vacuum or Evaporation Pan approximately 11 ft. 6 in. dia. by 8 ft. 6 in. on straight side, with conical bottom. Send full description, also cuts or blue prints and price. Answer 2 Cyril Terrace, Akron, Ohio.

5,000 galvanized iron drums 16x21 and 19x32—6 inch top openings. \$15 per 100 f.o.b. car. Young, 3707 Ft. Hamilton Parkway, Brooklyn.

## MISCELLANEOUS

ASK THE Bureau of Employment of the Chemists' Club (Agency) 52 East 41st Street, New York City. If you need a chemist (man or woman) for the laboratory or works. If you wish a position for the practice of your profession. No charge to employers. Moderate fee to applicants. Prof. Herbert R. Moody, Chairman Club Committee.



Founded in 1861

## E. DE HAËN A.-G.

ANTIMONY SALTS—65%

BARIUM SULFOCYANIDE

CHROMIUM FLUORIDE

MANGANESE ACETATE

MANGANESE OXIDE—HYDRATED

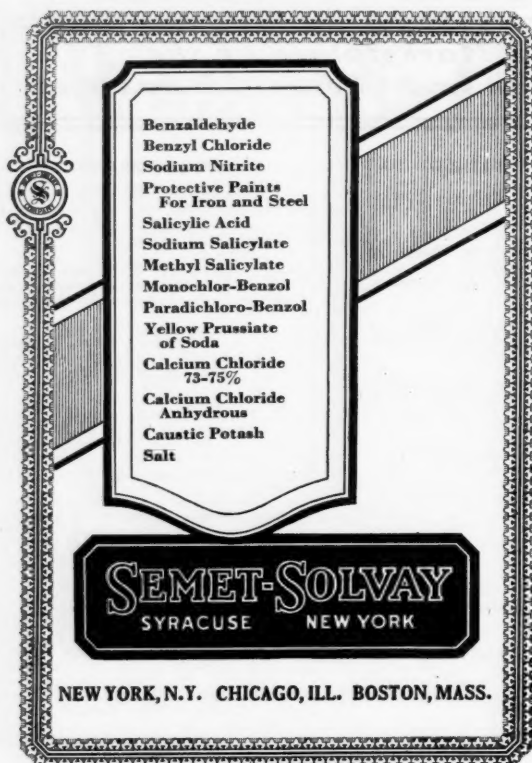
MAGNESIUM FLUOSILICATE

Sole Agents for the U.S.A.

### Pfaltz & Bauer, Inc.

300 PEARL STREET-NEW YORK

View taken from  
an airplane,  
in 1921



Benzaldehyde  
 Benzyl Chloride  
 Sodium Nitrite  
 Protective Paints  
 For Iron and Steel  
 Salicylic Acid  
 Sodium Salicylate  
 Methyl Salicylate  
 Monochlor-Benzol  
 Paradichloro-Benzol  
 Yellow Prussiate  
 of Soda  
 Calcium Chloride  
 73-75%  
 Calcium Chloride  
 Anhydrous  
 Caustic Potash  
 Salt

**SEMET-SOLVAY**  
SYRACUSE NEW YORK

NEW YORK, N.Y. CHICAGO, ILL. BOSTON, MASS.



**"COLUMBIA BRAND"**  
Columbia Chemical Division,  
Pittsburg Plate Glass Co., Barberton, Ohio

# Caustic Soda

All Tests

# Soda Ash

Dense-Light  
Granular if Desired

*Sole Selling Agents*  
**The Isaac Winkler & Bro. Co.**  
50 BROAD STREET NEW YORK FIRST NAT'L BANK BLDG., CINCINNATI

**Victor Chemical Works**  
Chicago  
St. Louis New York Nashville

Manufacturers  
of  
**PHOSPHATE OF SODA**  
**TRI SODIUM PHOSPHATE**

**EPSOM SALTS**  
Technical U. S. P.

**Ammonium Phosphate**  
**Baking Powder Chemicals**

**ACIDS—**  
Oxalic— (99.5% Pure) Formic— (All strengths)  
Phosphoric

*We Specialize in*  
**ALKALIES**

**Soda Ash**  
**Caustic Soda**  
**Bicarbonate Soda**

**W. F. GEORGE**  
**CHEMICALS, INC.**

Office 42 Broadway, New York Tel., Broad 5428  
Warehouses New York Newark



## Buyers' Guide

For full particulars as to products and addresses see Index of Advertisers on the page following.

### HEAVY CHEMICALS

J. T. Baker Chemical Co.	International Salt Co.
Battelle & Renwick	McKee Bros.
Bowker Chemical Co.	Merchants Chemical Co.
Church & Dwight	Meteor Products Co.
The Cleveland-Cliffs Iron Co.	Mathieson Alkali Works
Commercial Solvents Corp.	The Miner-Edgar Co.
Contact Process Co.	Monsanto Chemical Works
Chas. Cooper & Co.	Clarence Morgan & Co.
Darco Sales Corp.	Nichols Copper Co.
Diamond Alkali Co.	Pfaltz & Bauer
The Dow Chemical Co.	The Selden Co.
E. I. du Pont de Nemours & Co.	Roessler & Hasslacher Chem.
Ellis Jackson & Co.	Semet Solvay Co.
B. G. Feinberg	E. M. Sergeant Co.
Alex C. Fergusson, Jr.	Solvay Process Co.
General Chemical Co.	Stein Hall & Co.
Grasselli Chemical Co.	Superfos Company
W. F. George Chemicals, Inc.	Thorkildsen-Mather Co.
Wm. S. Gray & Co.	U. S. Industrial Alcohol Co.
R. W. Greeff & Co.	Victor Chemical Works
Edward Hill's Son & Co.	The Warner Chemical Co.
Industrial Chemical Co.	Wilkes-Martin-Wilkes Co.
Innis Speiden & Co.	Isaac Winkler & Bro. Co.
Jacques Wolf & Co.	

### FINE CHEMICALS

Abbott Laboratories	Jose Lopez
Baird & McGuire	Magnus, Mabee & Reynard, Inc.
J. T. Baker Chemical Co.	Mallinckrodt Chemical Works
Bowker Chemical Co.	May & Baker
Carbide & Carbon Chem. Corp.	Merck & Co.
Chicago Starch Co.	Meteor Products Co.
Antoine Chiris Co.	H. A. Metz & Co.
Commercial Solvents Corp.	The Miner-Edgar Co.
Commonwealth Chemical Corp.	Monsanto Chemical Works
Charles Cooper & Co.	Clarence Morgan & Co.
Darco Sales Corp.	N. Y. Quinine & Chem. Works
J. E. Dockendorff & Co.	Perth Amboy Chem. Wks.
The Dow Chemical Co.	Pfaltz & Bauer
Eastman Kodak Co.	Powers-Weightman-Rosengarten
Electro Bleaching Gas Co.	Roessler & Hasslacher Chem. Co.
B. G. Feinberg	Rhodia Chem. Co.
E. Fougere & Co.	Chas. V. Sparhawk
Grasselli Chemical Co.	Stein Hall & Co.
Guasti-Finch Chem. Co.	Superfos Company
William S. Gray & Co.	Thorkildsen-Mather Co.
R. W. Greeff & Co.	Ungerer & Co.
Albert H. Higbie	U. S. Industrial Chemical Co.
Hoffman-La Roche Chem. Wks.	Victor Chemical Works
Industrial Chemical Co.	Wilkes-Martin-Wilkes Co.

### DYESTUFFS

Calco Chemical Co.	H. A. Metz & Co.
Dow Chemical Co.	National Aniline & Chemical Co.
Dye Products & Chem. Co.	
Essex Aniline Works	New Brunswick Chem. Co.
E. I. du Pont de Nemours & Co.	Newport Chemical Works
Ellis Jackson & Co.	Pharma-Chemical Corp.
Gary Chem. Co.	Southern Dyestuffs Co.
Grasselli Chemical Co.	Stein Hall & Co.
Heller & Merz Co.	Jacques Wolf & Co.

### COAL TAR PRODUCTS

Abbott Laboratories	Jordan Coal Tar Products Co.
Baird & McGuire	H. A. Metz & Company
The Barrett Co.	Monsanto Chemical Works
Calco Chemical Co.	National Aniline & Chemical Co.
Chatfield Mfg. Co.	
Commonwealth Chemical Corp.	Newport Chemical Works
Essex Aniline Works	Protexol Corp.
E. I. du Pont de Nemours & Co.	Southern Dyestuffs Co.
Heller & Merz Co.	

### FATTY OILS

Antoine Chiris Co.	Jacques Wolf & Co.
New Brunswick Chem. Co.	

### ESSENTIAL OILS

M. L. Barrett & Co.	Magnus, Mabee & Reynard, Inc.
W. J. Bush & Co.	Morana, Incorporated
Antoine Chiris Co.	Clarence Morgan & Co.
Delphi Products, Inc.	Pfaltz & Bauer, Inc.
J. E. Dockendorff & Co.	Chas. V. Sparhawk
Fritzsche Bros.	Ungerer & Co.

### CRUDE DRUGS

Amecousema Am. Trad'g House	Jose Lopez
M. L. Barrett & Co.	Magnus, Mabee & Reynard, Inc.
W. J. Bush & Co.	Morana, Incorporated
E. Fougere & Co.	Pfaltz & Bauer
Hoffman-La Roche Chem. Wks.	Arthur Stallman & Co.

### EQUIPMENT

Buffalo Foundry & Machine Co.	Nashville Industrial Corp.
The Chemical Age	La Revue des Produits Chimiques
Chemical Trade Journal	The Yakuzyo Shuho



**A BINDER  
FOR THIS JOURNAL**  
Save Your Copies

Price \$1.00 net Cash, postpaid

## THE NEWPORT QUALITY

Coal Tar  
Products

We have stocks of the  
following products at  
Passaic, N. J., ready for  
immediate shipment:

Alpha Naphthylamine

Ortho Nitro Toluol

Ortho Toluidine

Para Toluidine

Sodium Naphthionate

N W Acid

R Salt

Cleves Acid

Para Nitro Toluol

Tolidine Base

Meta Phenylene Diamine

Meta Tolulylene Diamine



**Newport Chemical Works, Inc.**

Passaic, New Jersey

# Iodine, Distilled

*More Than 99 Per Cent. Pure*  
*Free from Chlorine, Bromine, Min-  
 eral Residue and Organic Matter.*

**Five Pound Bottles-Four to a Case**  
**One Pound Bottles-Twelve to a Case**



## U. S. INDUSTRIAL CHEMICAL CO.

### Sales Offices:

**BALTIMORE,**  
South Baltimore

**BOSTON,**  
943 Cambridge St.

**CHICAGO,**  
First Nat'l Bank Bldg.

**DETROIT,**  
Union Trust Bldg.

**NEW ORLEANS,**  
1008 Maison  
Blanche Bldg.

**NEW YORK,**  
27 William St.

## U. S. Industrial Alcohol Co.

### Executive Offices:

**27 WILLIAM ST., NEW YORK**

### Branch Sales Offices and Distributing

#### Warehouses

**NEW YORK**

**BALTIMORE**

**PHILADELPHIA**

**BOSTON**

**CHICAGO**

**ST. LOUIS**

**KANSAS CITY**

**NEW ORLEANS**

**PEORIA**

**PITTSBURGH**

**CLEVELAND**

**DETROIT**

**CINCINNATI**

**ST. PAUL**

## Index To Advertisers

Abbott Laboratories .....	49
Amecousema American Trading House .....	—
Baird & McGuire .....	113
J. T. Baker Chemical Co. ....	103
The Barrett Co. ....	8
M. L. Barrett Co. ....	115
Battelle & Renwick .....	110
Bowker Chemical Co. ....	113
Buffalo Foundry & Machine Co. ....	—
W. J. Bush & Co. ....	4th cover
Calco Chemical Co. ....	4
Carbide & Carbon Chemical Corp. ....	—
The Chatfield Mfg. Co. ....	4th cover
The Chemical Age .....	—
Chemical Trade Journal .....	127
Chicago Starch Co. ....	56
Antoine Chiris Co. ....	116
Church & Dwight .....	47
The Cleveland-Cliffs Iron Co. ....	70
Commercial Solvents Corp. ....	98
Contact Process Co. ....	122
Charles Cooper & Co. ....	97
Darco Sales Corp. ....	118
Delphi Products, Inc. ....	54
Diamond Alkali Co. ....	108
J. E. Dockendorff & Co. ....	107
The Dow Chemical Co. ....	1st cover
E. I. du Pont de Nemours & Co., Lithopone, Pigments & Heavy Chemical Div. ....	70
Intermediates Department .....	106
Dye, Drug & Chemical Co. ....	122
Dye Products & Chemical Co. ....	—
Eastman Kodak Co. ....	48
Electro Bleaching Gas Co. ....	101
Ellis Jackson & Co. ....	—
Essex Aniline Works .....	47
B. G. Feinberg .....	114
Alex C. Fergusson, Jr. ....	114
E. Fougere & Co. ....	111
Fritzsche Bros. ....	117
Gary Chemical Co. ....	—
General Chemical Co. ....	69
W. F. George Chemicals, Inc. ....	124
Grasselli Chemical Co. ....	72 & 98
Dyestuffs Dept. ....	—
William S. Gray & Co. ....	4th cover
R. W. Greeff & Co. ....	101
Guast-Finch Chemical Co. ....	113
Heller & Merz Co. ....	—
Edward Hill's Son & Co. ....	100
Hoffman-La Roche Chemical Works .....	99
The Indian & Eastern Druggist .....	111
Industrial Chem. Co. ....	110
Innis Speiden & Co. ....	104
International Salt Co. ....	120
Jordan Coal Tar Products Co. ....	114
Jose Lopez .....	50
Magnus, Mabee & Reynard, Inc. ....	118
Mallinckrodt Chemical Works .....	4th cover
Mathieson Alkali Works .....	67
May & Baker .....	114
McKechnie Bros. ....	113
Merchants Chemical Co. ....	113
Merck & Co. ....	—
Meteor Products Co. ....	119
H. A. Metz & Co. ....	68
The Miner-Edgar Co. ....	102
Monsanto Chemical Works .....	2nd cover
Morana, Incorporated .....	117
Clarence Morgan & Co. ....	60
Nashville Industrial Corp. ....	122
National Aniline & Chemical Co. ....	4th cover
New Brunswick Chemical Co. ....	112
Newport Chemical Works .....	125
New York Quinine & Chemical Works .....	97
Nichols Copper Co. ....	50
Perth Amboy Chemical Works .....	39
Pharma-Chemical Corp. ....	127
Pfaltz & Bauer .....	123
Powers-Weightman-Rosengarten Co. ....	97
Rhodia Chem. Co. ....	115
The Roessler & Hasslacher Chem. Co. ....	103
The Selden Co. ....	106
Semet-Solvay Co. ....	124
E. M. Sergeant Co. ....	—
Solvay Process Co. ....	109
Southern Dyestuffs Co. ....	112
Charles V. Sparhawk .....	55
Arthur Stallman & Co. ....	115
Superfos Co. ....	119
Thorkildsen-Mather Co. ....	122
Ungerer & Co. ....	126
U. S. Industrial Chemical Co. ....	126
U. S. Industrial Alcohol Co. ....	126
Victor Chemical Works .....	124
The Warner Chemical Co. ....	104
Wilckes-Martin-Wilckes Co. ....	97
Wing & Evans .....	109
Isaac Winkler & Bro. Co. ....	124
Jaques Wolf & Co. ....	—

Published in London Every Friday:

# The Chemical Trade Journal

& Chemical Engineer

(Established 1887)

**24/- Per Annum**

Every Large Firm in this  
Trade in the United States is a  
Direct Subscriber

American Advertisers  
Who Want Foreign Trade  
Will Find This Paper

The Direct Route  
to Buyers  
in 25 Countries

For Rates, Etc.

**265 Strand  
LONDON, W. C.2**

## YELLOWS

For

Silks · Woolens · Lakes



### Fast Light Yellow G 3 X

A 100% American Product  
Without a Peer

TARTRAZINE XXX EX. CONC.  
FAST LIGHT YELLOW XXX  
FAST LIGHT YELLOW G2X  
WOOL YELLOW SPECIAL  
FAST LIGHT YELLOW  
"SILK SPECIAL"

### Intermediates

SULPHANILIC ACID  
DIOXYTARTARIC ACID  
HYDRAZINES  
PYRAZOLONES  
And Others

### Pharma Chemical Corporation

Dyestuffs Department  
Offices Woolworth Bldg.  
NEW YORK

Works and  
Laboratories  
BAYONNE, N. J.

## Oil Almonds Bitter

"S. P. A."

of exceptional fine quality

*Write for sample and price*

**W. J. BUSH & CO., Inc.**

370 SEVENTH AVE., NEW YORK, N. Y.

Also at: 394 St. Paul St. W., Montreal

**Beechwood Creosote**

**Creosote U. S. P.**

**Creosote Carbonate**

**Guaiacol Pure**

**Guaiacol Carbonate**

*Correspondence Solicited*

**MALLINCKRODT CHEMICAL WORKS**

St. Louis

New York



## "National" Medicinal Products

**Methylene Blue U. S. P.**

Conforming in every particular to the requirements of the Pharmacopea.

**Scarlet Red (Extra) Medicinal**

Pure—Low ash content—High melting point.

**Phenylhydrazine Base**

Vacuum distilled.

**Phenylhydrazine Hydrochloride**

Technical and White Crystals.

**Special Absolute Pure Methyl Alcohol—Acetone Free**

*Quotations on Request*

**National Aniline and Chemical Co., Inc.**

*Pharmaceutical Division*

40 Rector Street, New York

**NAPHTHALENE**  
**Ball - Flake - Crystals**

**The Chatfield Manufacturing Co.**

Cincinnati, Ohio, U. S. A.

*Eastern Representative:*

CHAS. L. HUISKING, Inc., 5 Platt Street, New York City  
Phone: John 6186

*Chicago Stock:*

CLARENCE MORGAN & CO., 355 W. Ontario St., Chicago, Ill.  
Phone: Superior 8870-71-72

**WM. S. GRAY & CO.**

342 MADISON AVE.

New York City

**MAGNESIA**  
**WHITING**



